SURVEY ON NEUROBIOLOGY

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PART I

DEVELOPMENT, *GROWTH AND REGENERATION* OF THE NERVOUS SYSTEM

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(Dog cattle mic newborn to ld animals; pinal medulla, ga glia, nerve root Quantitative data on ell umbe and ise phenomena of growth and de generation mitotic phenomena Good bibliography)

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(C 130 138

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(Cats rats; ection of opti nerve N turn of vi ion noted, but ye pe ists i good condition)

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phali of the Sela hi) Anat Anz 64 213 235
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(A abstract)

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(Animal?? rushing f nerv with nd without mobil ization nd de truction of va cular supply; lack of ffect f mobilization va cular l ions on ne ful rve generation.)

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(M rpho- and histogene i ; lation of development of gra hoppe to that of othe insects)

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BAGG H. J 1922 Disturban l mammalia d velopment produced by radium emanation. Radium L. New Se 2: 20 ppg 15 fig
(Rats; irradiation of pregnant female ; xperimental teratology; cerebral rtical atrophy nophthalmia bsence of retinas in off pring)

GINI M 1923 Alcuin II tti della entrifugaal
nall ova gme tat di Buf vulgaris Nota
liminai Monit Zool Ital 34 2 flg
(perimental t ratology of brain nd pinal rd)

1929 Contributo ll con nna dell
as h det rmin no la individualizzazione l ll
ll vament del tubo neural n ll uova di Anfibl
l (Buf vulg ri) (Cau det rmining the in
dividualization and el vation of the neur l tube in
gs of A ra (B vulg) Arch. Ital Anat
nb Iol 26 577 583
entrif gation f blastula; discus ion f st hotrop
m ration and mito is as ffective f rc n
urulation)

AGINSKY B 1893 Übe da V halten von N rven
do gane na h Durch hn dung de geh rigen
rven Arch. f Anat u Phy iol Phy iol Abth
ahr 1893 559 560

1894 Übe da V halten von N rven n
rg nen na h Du hs hn dung de ug horig
rven. Arch. Path. Anat Phy l Kl M d 137
89 404

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Arhl ephaly in lt) Arch. W Prakt
Tl heilk. 57 586 594
Not b t ted m Bi logical Ab tra ts)

BAILEY P L J 1930 Th influenc of the
rvous y t m in the regen rati of El eni foetida
S vigny Jou Exp Zool 57 473 509
(E rthwo m ection f ent l nerve rd, deflection
I tumps t prevent generation depe denc of c-
ordinated movement po t ri rege ation on
ti nous nervous ystem)

1939 Antari regene tio h rth
worm E la i the rtai b nc of ntral
rvous ti ue t the wound region Jou Exp Zool
80 287 293
(Exci ion I port on of vent l rve rd utog nous
gen tion f h d nd phali g glia)

and G H. BAILEY 1938 Furthe experi
ments on the infl nc of the nerve rd in posterio
rege tion in El enia and Ne ei Jour Exp Zool
79: 13 29
(Exci ion ad t nslocation of nerve ord, dependenc
of worm l regen tion on pre enc of rve ti ue
f ll re f nerve in cut urf to evoke g neration
i some)

BAILEY S. W 1937 An experimental tudy of the
igin f late l line tructure embryoni ad
dult teleo t Jou Exp Zool 76 187 223
(Fundulu h t eclita Cara ius uratus Ame rus
n bul ; embryos ad dult ; extirpat on la ral
lin g xtirpation 4 fl t on of la l nerve
le of rv todu g d maratas g l t l line
en g)

BAKER, R C 1927 Ea ly development f vent l
part of eural plate of Ambly ma Jou C mp
N u 44 1 27
(A Jeff onianum; hi talogy rol f ural keel i
cl re of ne ral tube f rmation I bas l pl te; ha g
l ll hape and rel tion do g eural tion ly
hi toge i of eurobl)

d G O GRAVES. 1932 The d velopment
f th br n f Ambly toma (3 t 17 mm. body le gth)
Jou Comp N 54 501 559
(Larv w xplat econ truction ; morphogene l
d velopme t of f be t ( )

1939 The behavi of the neural
st l the f brain gion of Ambly toma Jour
Comp Neur 71: 389 409
(Embryo b rvation nd vital taining; diff rentia
tion d total migration of neur l cre t)

BALDUS K. 1924 Unt hung über B u nd
Funktion de Gehi ns de La ve und Imago von Lib l
len Z itsch. f wi Zool. 121 557 620
(M rph l gi al and phy i logi l t dy tructure and
function of ins ct brain duri g larval lif metamorph
i dult condition.)

BALDWIN W M 1920 The rtif ial production of
monsters demon trating loc ll ed def t as the re
ult f injury from X rays Ame Jou Physiol
12 296 303
(Frog ggs rad tion; experimental teratology of
CNS Diff ential ti usc ptibil ty)

1921 Th rtifi ial production f
yringomy loc l in the tadpol by me ns of X ray
An t R 2
(l 2 ll tage frog gg x diation; xperimental
te tol gy differe tial us ptib lity f tl su ; CNS
p bif da)

BALFOUR, F M 1875 On the d velopment of th
pinal nerve n l mob anch fi he Phil T a
Roy Soc London 166 54

1878 A monograph on the development f
El mob nch f he London.

BALINSKY B I 19 7 Übe xperimentell Induk
ti n d Ext emitätenanlage b i Triton mit be ond re
B ruck ht gung d Inn rvation und Symmetri ve
hältni de selbe (The expe me t l i ducti n f
limb bud Trit n, with pa ticul ref re to in
n rvation d ymmetry relations) Z it h Wi
B l Abt D Roux h Entw Me h d O g 110
71 88
(Induct on f supernumerary limb by e ve l l grafts
flank. innervation by 9 11 pinal nerv ; on specif
ffect f induct on innervation)

BALLANCE C 1931 Ana tomosi f ve xperi
ments i whi h th entral end f the divided rvi l
ympatheti nerve was na tomosed to th peripheral
nd of th divided hypogl al nerve Ar h. N
P ych 25 1 28
(Cat monkey dog compl t functional recovery of
triated muscl f llowi g r innervation from ympathet
upply)

L. COLLEDGE nd L BAILEY 1926
F rth result of nerve na tomos A illustrated
ec d f ome xperiments whi h l The tral
nd periphe l ends f divided nerve were impla ted
t varying distanc part into ne ghboring normal
rve 2 Certa ne ve trunks of th limbs w
divided nd na tomo d by uture in ro swi fa hion
B t Jou S g 13 533 558
(Protoc ls of l nimal (?) pe t d on ding to
titl)

BALLARD W W 1939 M tual l regul tion betw
rebell nd l l Ambly toma tudi d by me f
het ropl tic t nsplantation. Jou Exp. Zool 81
261 285
(A tigrinum A. punctat m, t plantation f l ecto-
d rm, l rn Mutu l gul tion f tiss nd
les Eff ct of nutrit on)
BALTZER, F 1940 Da P obl m de T illdentitat
rive sch dene Kerne m Ll hte d Entwi klung em
bryon ler B sta dtra pla tat Boll Soc Ital Bi l
Sperim. 15 39 41
(Geneti pha nd g pe if ity of lethal g ne i
brain nd eli ve l l)

BANCHI A 1906 Sullo vil ppo del rvi peri f ricl f man independente dal l tema nervos nt 1 A t. Ana 28 169

BANU R. 1922 R he he phy iologiq l dé l pp me t uromusculair he l'homm et l nimal Thé Sci Pari

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BARDEEN C R 1900 De lopment f the body wall I th pig in l ding its h st ge i nd It lation to th myotomes d to th k letal and rvous p paratus Johns Hopki Hosp R ports 9 367

190 G owth d hi togene of th brospinal rv in mammal Ame Jou Anat. 2 231 57 (Chiefly p g mbry ls mbryo f man guine pig mi ; histogen f moto nucl ry ganglia pl xu f rmation, outgrowth nd b nch i g f rve fibe ; f rmation l Schwann h th; peripheral end gans lation f nerve to mus l ; my lini ation)

1906 D velopment and variation of the rve nd musculature of the nf ri extr mity d f the ghboring gi ns of th trunk man. Ame Jour Anat 6 259

BARDEN R.B 1942 Th rigi nd developme t of th hromatopho of th mphib ye Jour Exp Zool 90 479 514 (Amblystoma Triturus rth topi d het rotopi t plantation, exci on ne ral t rigin f pigme t ll ffects f envi ment diff enti tio)

BARFURTH D 1891 Zur R gen ti d Gew be Arch mik Anat 37 406 491

BARNARD J W 1938 Mammalia tectum pre liminary port Uni H p Bull Ann A bo 4 116

BARNES M R. 1944 The metaboli m of the developing Rana pip ens eve led by pe if inhib to Jour Exp Zool 95 399 417 (R lation of O_2 on umption, glycoly narcoti and piratory l hib to to f rmation nd l su of eural folds)

BARNES R. P BACSICH nd G M. WYBURN 1945 A hi tologi al tudy of p degen rated nerve utograft. Brit Jour S rg 33 130 135 (Human, lua rve utograft; sutu ; suc ful gen tion)

BARON M 1934 Histophy iologische F hu g de hete ogenen Reg neration proz de perisellula en Apparate (Synap) Jahrb M rph Mikrosk Anat Abt II Zeit chr Mikro k. Anat F h. 35 331 361 (Cat; sutur f eat l end vagus t periph ral yr pa theti to Iri phrenic to ympathetic gluteal to do l pinal oot; f rmation of gen rated ynap typi al f peripheral rathe the entral neuron.)

BARRON D H 1933 A omparison of the time lation of muscl uppli d by normal d by regene ted nerve Ame Jou Phy l l 103 651 658 (White rat ; omparison of rmal muscl with that upplied by egene ted nerve of gnific tly small fibe di mete Equality of chronaxi tension developed duration f l otonl and l omet i twitches)

1936 Sequenc f medull tion of periph ral rve Proc Soc Exp Bi l Med 35 308 309 (Not b tracted in B logical Abstracts)

1943 The early devel pment of the moto lls and lumn in the pinal cord of the she p Jour Comp Neur 78 1 27 (Embryos diff en ti tion nd migration f neurobla t ; ffect of fib f ld on diff renti tion)

1944 The arly dev lopment of th ensory and internuncial lls in th spinal rd f the heep Jour Comp Neur 81 193 225 (F t h p; histol gy; fi t pperanc en ry neurons d proc ; pos ibl lation with developme f int rnunc al uron)

1945 The l of th ens ry fibe in the diff t tion f the pinal rd l the he p Jou Exp Zool 100 431 442 (She p f tu ; mputation f dh tal f relimb Ca rian d l ry; hypopla ia of ensory ppar t ; relation of ne robla t growth to diff entiation.)

d J BARCROFT 1938 A case f am putation f l g 90 day bef birth Jou Phy iol. 93 21

nd B H C MATTHEWS 1938 Th ate pretation f pote tial ha ge l th pinal d. Jour Phy L 92 276 321

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BA TA E 1928 Th morphology of the ti ue f the dult ganism in vitro A h Exp Zell f h 6 81 84 (Adult rabbit brai medulla bellum pinal d; f l cultivation i vitro)

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and H.M EVANS 1926 The developm nt f th huma embryo during the period of omite f mation, including mbryo with 2 to 16 pai f o- mit Co trib to Embryol 17 Carnegi Inst. W hi gton.

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1941 Neural diff rentiation without rg ni Jour Exp Zool 87 371 382 (Amblystoma punc tatum xplantation of ectoderm; relation of neural diff rentiation to polarity ndependenc from o ganiz)

1942 R gional diff renc in oxygen co umption of th mphibia ga trula Physiol Zool 15 30

BARTOLI, O 1930 L'infl enza del i tema nervoso ll ttecchimento degli inn ti omoplastici di te uto mus ol re stri to (Influenc of the nervou ystem th growth of homopla ti grafts f triped muscles Poli l nico (Sez Chir) 37 361 370 (into gemelli mm. with perone l nerve L gen ration of nerve nd degeneration of trophic ff ct of nerve on muscl)

BARY A. 1898 Ube die Err gt eug borene Ti re Di rta ion

BASERGA A 1931 Sull'influenza d l latema nervo nel proc i generativit Boll. Soc M d. Chi Pavia 45 327 344 (Triton taeni tus; extirpation 17th nd 18th pinal ganglia; mputati f leg t variou levels lation of pecific ganglia to regeneration at variou level ; relation of quantity f inn rvating fibe to volum f regenerate)

BASKIN B 1933 Übe den Einflus de N rven y tems uf den R gene tionsvo gang beim R g wurm. Zool Anz 103: 253 262 (Lumbricus rub llus Allo- l bophora ligino ; epla ement of median trip f ventral body wall plus nerve o d with tail producing tl uet reg n tion f he d d monstratio f nn pecific natur f rvou influenc on generation)

BASU B N 1935 Compl te b nc of eptum pell cidum. Jou Anat 69 394 395 (Man. eport f as ; gro de ription of brain.)

BAUCHHOLTZ A 1890 Übe da V kommen von Karyokine en in Zell d Zentral nervensystem von eug bo enen und jung Hunde und Kaninche Neur Centralbl tt 9:

BAUDOT J 1921 1922 Contribution à l étude de l'hypophy Qu lque point d ganogénèse d'hi togénè et d'hi tol gie Th. med. Nancy 112 pp 3 pl (Animal??; histologi l tudy)

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1932 B ba htungen übe da W b tum von N rvengew be i vitr Jah b Morph Mikro k Anat Abt. II Z itsch Mikro k. Anat F h 28 47 80 (Chi k embryo brum expla tation; growth patt rn relation of axone to glial ll ; peri llula net yncytial nature of growth)

1936 V rhalte embryonal Gewebe na h hädig nde Einwi kungen. V handl Anat. Ge ll 43 129 136 (T bling of CNS i 10% Lug ls Chi k mbryo ; benz l oton il tincture of iodin nd benzine t tment production of vascula dilatation and diapede i into me nchyme; degenerative hang i m senchyme timulation of mito is nd growth in neural tube by Lugol lution. Experi m ntal te tology)

1938 Conc pt f eurencytium. Zeitsch f mikr nat. F ch. 43 48 76

1938 Neu orpithelium d t pa ty f diff rentiation i cultu Arch f xpe Zellf h 22: 38 46

1938 Übe Epith li rmationen in den N rvenkultu en und ih hl togeneti he Potenz Roux Arch. Entw M k d Org 138 1 17 (Chi k mbryo brai xplantation d scription of Ca l Lindberg te hniq ; g owth and diff ntiation of rv fibe)

BAUMANN A. 1934 Ob rvations l p m tade de l innervation du ce be un B t ien A oure (Bombinata pa hypu Bonap) R Su Zool 41: 235 261 (Embryo l rva hi togen)

1935 Su l'innervation de l ébauche pul monai debut du développement hez l'homme t l poul t. C. R Soc Biol 128: 3 5 (Not b t cted in Biologi l Ab tract)

d J WIRTH 1940 Etude d une mal f rmation passagère du toit l de l f rmatur du tube nerveux hez l jeu embryons de poulet Bull Hi tol Appl Phy l et Path. 17: 212 224 (Chick embryo; pontan ous invol tion f eural tube i m enc phalon myelen ephalon and uppe rvi l rd; t ratology)

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BAUTZMANN H. 1929 Üb bede tung f rnde S lb tdiff enzi rung us T il tücken de Amphi b enke me (Self diff rentiation i pi of Am phibian embryo) Naturwi nschaft 17 818-827 (Animal??; tra plantation experiment ; developm t f fragments f medullary plate int oon ne t rgans)

1929 Übe Züchtung von Organanlagen tücke junge Embryonalstadi von Urodelen und Anuren in Bombinato hautbläschen. (The cult re of f gments of ga primo dia from young mphibian mbryo i kin bl dders of the larva of Bombinato) S tzung be Ge M rph Phy iol Münche 39: 1 18 (Self diff rentiation of brain nd se rgans lo re of neural tube in ctopi location fre from ctodermal pre ur)

BAXTER, J S nd J D BOYD 1938 Abnormal development f th brain i 8 mm. pig embryo Jour Anat 72 422 429 (Non-union of neural f lds def ctive development of opti primordi ba nc of 3 4 and 6 anial nerve ; lation to true nen- phaly)

1939 Ob rvations on the neur l t f tem omit human mbryo Jou Anat. 73 318 326 (Hi tological ob vations anatomical lations)

BEAMS H. W and R. L. KING 1938 Pigmentation hang in tadpol f Rana pip ens f llowi g entri fug tion during the ly g trul Jour Mo ph. 63 477 486 (Effect on hypophy is inhibition ex perime tal teratology)

nd P L. RISLEY 1934 Stud on entrifuged frog gg Proc Soc Exp Bi l M d. 32 181 184 (Rana auro R. pipien ; ltrac n- trifug tion, production of supernum ry notocho ds unac ompani d by l tube i the re ultant mbryo)

BEAMS H W nd H. W KIRSHENBLIT 1940 Ult entrifugation f rat pinal ganglion ll with pe l rel enc t n ur fibrill Anat R 76 95 100 (Demonstration of di placement of ne ro- fibril morphologi al re lity)

BEAR, J 1931 Ini phalus with the port of se Ame Jou Ob t t. Gyn. 22 429 432 (Not b tracted i B ol gi l Ab tra ts)

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BELEZKY W K. 1932 Übe di Hi togene de M oglia Virchow Arch. Path Anat Physi l 284: 295 311 (Animals ??; discus ion of imilarity f Hort ga lla (mesoglia) and ligodendroglia Common plac reticulo-endothelial ystem.)

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nd W SCHLAPP 1943 Experime ts on the blood upply of nerve Jour Phy iol 102: 62 71

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1929 Cho daverdoppelung bei inem men chlichen Embryo von 13 mm gr Läng (Doubling f th chorda do alis in huma embryo 13 mm. long) Ze tschr Ge Anat Abt. I Zeitschr Anat. Entwicklungsge ch. 90 52 56 (Not b tr cted in B logical Ab tr cts)

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C NEUMANN and J C. HINSEY 1945 N rve egeneration in cats on vitamin-B₁-defi ient diets Jou Ne rophysiol 8 315 322 (Raw arp di t producing onvul ions anorexia ataxi vestibula disturbanc ; normal rate d type of peripheral nerve regen ration i pite of evere ymptoms of vitami deficiency)

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1907 Neu V uch übe di R g neration d N rvenfa ern Arch f d. Ge m Phy iol 116 385

1930 Studien übe di Pla tizität de N vensy t ms I Ara hnideen und Cru ta n. (Bethe A und Edua d Woite) II Coleopteren, Käf Pflüge A ch. Ge Phy i l 224 793 820 8 1 835 (Amputations of ppendag from pide crustacea h etl Removal of bra nd bpharyng l ganglia Adptive plasticity of locomotion dependent of p enc f ntral rvous ystem)

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BIANCALANI O nd R. SOCAL Ulte i ric rch bioch mi he i torno i lipoidi del ntri rvosi bro pinali (2a omunni azione) (F rthe biochem l tudi on the lipin f the bro pinal rvous en te 2) (Ma ; ha g l amount d ompo ition f lipi of bra nd rd f llowi g birth.)

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BYTINSKI SALZ H 1929 Unte uchung be di Determination und di Indukt on fähigke t u g K imbe k de Anure Z t h W B l Abt D Roux Arch f Entw M h d Org 118 121 163 (Hyla bo Rana t mpo ri Bombinato gneu Triton lpe tri g trul V gt method vital taining loc lis t on f p umptive medull ry plate Implantation of p umpt ve plate at bla tocoel ; induction f ondary pl te toxi ff te f hete pla ti grafts)

1935 Het opl t t plantat on of the hypophy i in Ambly toma Jou Exp Zool 72 51 73 (A tig num A m xi um ntercha g of hypophyseal nlag n ff g with te m tamorphos of ho t)

CADENAT M E 1931 I m aci et le rf dans le bec de l'ivr b laté l total Ann. Anat Path. t Anat N m Méd Ch 8 353 358 (Human fetus term onda y mod f tion in mus l inn rvatio as sult of ha l p)

CAJAL, S R. y 1890 A quell époque pparaiss ent l expans ons de ll l nerv use de la mbell épinièr de poul t Anat Anz 5 85

1893 La étina de rtébré La C llul 9 119 257

1894 Le nouvell dé la structur d ystème rveux hez l'homm et hez l verté bré Paris

1899 T xtura del tema rvioso del hombre y de los vertebrados T mo I. Madrid.

1904 Textu del si tema nervi del hombre y de l vertebrados T mo II pp 1150 1152 Madrid.

1906 Mecani mo d la regeneració de lo rvi Trab d. lab d inve t. bi l d. l Uni d Madrid 4 119 210

BRUNSCHWEILER, H. 1928 Contribution la on nal sanc d la nd roc phalia vera (Mi rocephal l vera) Schw ize Arch. Neurol. u. Psychiat 21 246 282 1927 22; 73 121; 22 269 309 (Man; report of ca f macrogyric mi roc phalia; anatom al de ription and discus ion f th ri of causation)

BRUNST V 1927 Zur Frag na h dem Einflus de N rve yst me uf di R gene ation. (Influenc f the rvous ystem on regeneration) Wilh lm Roux Arch f E tw Mech. d. Org 109: 41 53 (Triton ristatus; mputation of hind limb f rmation f bla t ma xtirpa tion f part f spinal d from moto nt hind limb from houlde region; effect of moto paraly is on growth of regenerating limb fu ion f keletal lem nt)

BUCCIANTE L. 1929 Studi ll durata del periodo inetico ed inte inetico l embrioni di pollo ncubati diff ent temperatur (Dur tion of mito l d int rmitos i the chi k mbryo incubated t diff rent temperatu) Z tsch W Biol Abt D Roux Arch f Entw M h. d Org 115 396 408 (No ffect of incubation tempe t on lative and b lut mitose l ural tube of chick embryo)

BUCHHOLTZ A. 1890 Ube da V komm von Karyokinesen in Z llen de Centralnervensyst ms vo neug bore en und Jungen Hunde u. Kaninche N Centralblatt 9 140 142

BUCKLEY A C 1937 Myelinization the tral nervous ystem of the lbino rat t ted with tymu xtract (Hanson) Jour Comp Neurol 66 449 454 (Growing rat genetl ndocrin logy; ac l ration f my linization by thymu t eatme t in newborn imals; ffect pe l tent to 10th generation)

and E M DEERY 1929 Abnormality f th brum and l ptomening insulating intra nial tumo Ame J ur Path. 5 459 466 (Human infant; g os nd mi roscopi d scripti of)

BUCY P C 1928 Studi in dege tion of pe ipheral nerve Jour Comp Neu 45 129 159 (Rabbits; action inf ri dental facial hypoglos al nd ciatic na ; hi tologi al tudi on hromatol nd ov ry of ex on de and egen ration of peripheral temp)

BUEKER E. D 1943 Intra ntral d periph ral f cto in the dif rentiation of moto ne rone tran plant d lumbo sa ral pinal rds f hi k em bry Jour Exp Zool 93 99 127 (Limb bud ex tirpat on; pinal d tra plantation; relation of limb nd pelvi gi dl to d velopme t of lat ral mot l mn; plexi; lation of periph ral fi ld to ensory d motor root)

1944 Diff renti tion of the late l moto lumn i the via pinal rd Scienc 100: 169 (Chi k mbryo; homoplasti and xenoplasti t ans pla tation; induction f lateral moto lumn by l mb periphery)

1945 Th influenc of growi g limb on the diff re ti tion of somatic moto eurons l tra planted avia pinal rd gment Jour Comp Neur 82 335-359 (Chi k; homopla ti transplants tion; and h t opl tl transpla ta ion. (al in guine hen); lat on of periph l load to neuronal diff entl tion)

1945 Hyperpla ti hang th nervou y t m of frog (Rana) ocl ted with m ltipl functional limbs Anat Rec 93 323 330 (Unilat ra multipl limb ; pinal co d and medulla; independenc of total ll umbe ; hyperplasia of dorsal funiculus; lumbo-sa ral rd, moto lumn pinal gangli Quantitati)

v BÜNGNER O 1891 Übe di Degeneration und R generationsvo gänge m Nerven nach V letzungen. Betr z. path. Anat. u. allg Path. 10 321

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1939 Corr lative diff rentiation of the m phibia epithelial hypophysi Proc Soc Exp. Biol. M d 40 341 342 (Hyla regilla; gastrula; mechan-al pa tion pa buccali nd infundibulum; induc ti ffect f infundibulum on pithelial hypophysi ; ffec on pigmentation.)

BURKART W 1941 Beit g zu experimentellen U te hung ube di Entwicklung de N rvensystems d Amphibi n. 38 p 4 pl. Di rtation. Zurich (Not b tracted B logic l Abstract)

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and C VERSTEEGH 1931 A supernume ry ns rgan in the labyrinth of Echidna Acta Oto Laryngol 16 516-324 (R port of ; la tion t po bl l vng produ t of mi-circula anal)

BURNS R K. nd L. M. BURNS 1929 The g owth f the wh l gani m and f the limb i two peci f Ambly toma umt d in pa bi i Jou Exp Zool. 53 455

BURR H S 1916 The ff t f the emoval f the l pl ode on Amblystoma mbryos Jou Exp Zool 20 27

— 1916 Regeneration i the brain of Ambly toma Jour Comp Ne 26 203

1920 Th transplantation of the bral hemi phere of Amblystoma Jou Exp Zool 30 159 (Amblyst ma larva ; tra pla tation of rt b l hem phe lfactory pl ode ff ct of en ripetal growth f ensory f bers on diff entiation nd growth f rebral he rese Lack of ffect on al f t ry function)

BROCKELBANK, M C 1925 Degeneration d generation f the lat ral ll rgan f Amei rus bul (Le) Jour Exp Zool 42 293 (Hi to-logic l b rvation on degen ration f gans f l lowing section f lateral line nerve ; regene tion orrelated with nerve generation Trophi ff t f peripheral rve L A nd Bi logiqu)

BRODAL, A 1946 Co relat d hang in nervous ti sue in malformations f the entral rvou system Jou Anat. Lond. 80- 88 93 (Mi genetl h editary hydrocephal ; ff cts on morphogene i f bellum splitting of bella vermi tre ia of lobulu ; omparison with imilar human ; ff ct of ing owing eurite from live in p venti g imultaneous tre ia in inf ri live and pons)

BRODER, S B 1935 A nencephalic monste with 'Rhinodymi and othe omali Ame Jou Path. 11 761 774 (Human teratology; de ption of with doubl no and mouth ('rhinodymi) nencephal pina bifida nd def ctive di phragm.)

BRODY S 1924 A note on the imilariti between th curve of growth and f generation. Jour Gen Phy l L 6 629 633 (Quantitative mathematical t tment f similaritie of growth and g neration rve to each othe d to the rate curve f monomol cular chemical ction)

1945 Bioen rg ti and Growth R inhold Pub Corp New Y k.

BRON A 1933 L nnervation primitive de mem b he d embryon de poulet Arch. Anat Microsc 29 373 388 (T m of ppearanc and pattern of f t ne ve fibe of limbs; lag in ens ry ompared with mot ion rvation)

BRONK, D W 1946 The phys l tructur and biologi al tion of nerve lls Am Scienti t 34 55 76

BROWDER, J and J A deVEER 1934 Rhinoven cephalocoel Ar h. Path 18 646 659 (Human fant; anatomical and histol gical de ription of ; lation to tuberous scl is)

BROWMAN L G and F RAMSEY 1943 The mbryology of mi rophthalmus in Rattus norvegicus A h Ophthalmol. 30 338 351 (Hist logy lation of optic up development to vascularization)

BROWN M E. 1935 Th morphology f the eurons migrated from the ga glion nodosum f the vagus in bird Jour Comp. N ur 63 127 137 (Chicks Cajal taini histologi al obs rvations)

1936 The oc nc f ens ry neurons below the ga glion nodosum of the vagus Jour Comp N ur 63 421-429 (Newborn and fetal dog rabbits guinea pig kittens; Cajal impregnation, histologi l obs rvation ; importanc of st in degene ation of vagu)

1946 Th hi tology of th tadpol tail during metamorpho is with pe ial efe enc to the nervous y tem Ame Jou Anat 78 79 113 (Cajal te hnique relation f etrograde axon degeneration to etracting fibers)

BROWN M G V HAMBURGER and F O SCHMITT 1941 Density tudi on amphibian embry with pe ial ref renc to the mechanism of ganiae rtion Jou Exp Zool 88 353-372 (Ambly toma maculatum, A. tigrinum A opacum Rana pals tris; onstancy f density me rements through neurulation; lation of ti ue volume nd wate ontent to leavage nd morphogenesi Clos f neural tube)

BROWN SEQUARD C E 1849 Expo u la rabilité d a plai de l moell épinià C R. Soc Bi l 1: 17

1850 Régéné tion de ti de l moelle épinià C R. Soc Bi l 2: 3

1851 Su plusieu de i t is tion de plai f it la moell épinià ec etou de fon tions pe du C R. Soc Bi l 3: 77 79 (Al in Gaz Med 1851 477)

BRUKE, H. 1930 Die R gen rati n de Hal ym pathicus nach Dur hs hneidung und die Wiede be t ltu g de Tonu ein E f lgso gan Pflüge A h. Ge Physi l 226 319 322 (Cat tion d utu of rvical ympatheti ; l no of reg nerated fibe i peripheral stump ove ontrols; rate of gen ti of ympatheti fibe phys logical demon tration of oc ful egen ration)

1931 R overy of rmal tonus the ou f reg ration of the rvi al ympathetic rve Jou Comp Neu 53 225 262 (Cat ; ection d gen rat on of pr g nglionic rvi l ympatheti trunk Hi t logic l and physiological tudy f generat on b rv tions on hyperinn rvation f reg nerat to tion of f ll fun tion by mall umbe of gene ting fibe

BRUGI, G 1937 Parti l rita trutterali del Nucleus rporis geniculati late l del omato Anat Anz 113 119 (Man; f tal and neon tal medullation nd eurofibrill tructure of lateral geniculate body)

BRUIN J 1926 de Acrocephal synda tyli Acta P diatrica 5 280 293 (Man; port of two)

BRUMMELKAMP R. 1935 On mi rocephalia vera P ychiat N rol Blade 1935 246 252 (Dis us ion of one new five review ca of mi oc phalia vera i man light of DuBois cephalization the ry (Co rel tion betw en body weight and w ight of frontal lobe) Quantitative)

1940 Growth l ne -c rtex duri g ont geny of heep Proc Ned Akad. Wetens h Amsterdam 43 1089 1093 (Study f proportionate growth i f ve diff ent rtical re)

1941 Equal distribution of neo- ortical ma and equal growth intensity of neo- rtex. Proc N d. Akad. W tensch Amsterdam 44 529 539 (Animal??; analy i of factor concerned i atr ti fic tion f rtic l lay differential growth of brain.)

BRUN R. 1926 Die Kleinhirn: Anatomi Phy i logi und Entwi klung ge hi ht (Anatomy Physi logy nd development of the bellum.) Sch w ize A ch Neurol P ych. 19 323 372 (A eview)

BRUNI, A.C 1926 Morfogene d togene i dell ppa ec hi di onduz one d ll eccitamento del uore (M rphogene i and hi togene is f the on ducting y tem of the heart.) Bol Soc Biol Sperim. l 129 130 (Summary of wo k on development of onduction sy tem of he rt of ruminants by econ truction method.)

BRUNS E 1931 Experimente über das Regulations vermöge de Bla tula vo Triton ta niatus und Bombinato pachypus Zeits hr Wis Biol Abt. D Roux A h. f Entw Mech. d Org 123 682 718 (Extirpation of bla toderm fragments; vital taining; hypoplasti development of nervous system following eplac ment of lls by pr umptive mesoderm.)

BRUNSCHWEILER, H, 1928 Contributio la con nal an d l mi oc phalia vera (Mi rocephal ia vera) Schw Ia Arch Neurol. Psy hiat. 21 246 282 1927 22 73 121 22 269 309 (Man; report of cas of macrogyric mi roc phalia; anatomical de ription d di us l f th ri d usation)

BRUNST V 1927 Z Frag na h dem Einflus de N rve ystems uf di R ge ration. (Influenc of the rvous system regene ation) Wilhelm Roux Arch f Entw Mech. d. Org 109 41 53 (Trito ristatus; mputat on of hi d limb f rmati f bl stema; extirpa tion f part f pinal rd from moto nte hi d limb from boulde gion, ff t of moto pe ly is on growth of regenerating limb fus on f keletal lements)

BUCCIANTE, L. 1929 St di lla durata del periodo inetico ed inte cinati in embri m di poll incubati diff nte tempe tu a. (Dur tion f mito nd intermitos in the chi k mbryo incubat d t diff nt temperatu) Z itsch Wi B l Abt D Roux Arch f Entw Me h. d. Org 115 396 408 (N effect f incubation tempe ture on lative and bsolut no mitose i eural tube of chick embry)

BUCHHOLTZ A 1890 Ube da V komm von Karyokin en in Zell d Centralnervensystems von eeg borenen und J ngen Hunden Kaniarh n. N Centralblatt. 9; 140 142

BUCKLEY A C 1937 Myelinization in th ent l nervous syst m f the lbino rat, t ted with tymu xt ct (Hanson) Jour Comp N urol 66 449 454 (Growing rat ; geneti ndocrin l gy; l ratio f myelinization by thymu t eatment in newborn an imals; effect pe m tent to 10th generation)

— and E. M DEERY 1929 Abnormality f the brain and l ptom ning imulating an atracranial tumo Ame Jour Path 459 466 (Human inf t; gros and m ro opi descripti f ca)

BUCY P C 1928 Studi l d ge t on of pe ipheral nerve Jou Comp Neu 45 129 159 (Rabbit ection inf ri de tal facial hypoglos al nd cl ti na.; hi tological tudi on hromat lys and recovery of ne d and egen ration f peripheral t mp)

BUEKER, E D 1943 Intra entral and peripheral facto l the dif ntiation of moto ne rone in transplanted lumbo sa ral pinal rds f hick em bryos Jour Exp Zool 93 99 127 (Limb bed tirpatio pinal cord tran plantation; relation of limb d pelvi gi dle t developme t f lateral moto l mn; pl xi; lation of peripheral field t ensory d moto roots)

1944 Diff renti tion of the late l moto lumn i the vian spinal rd Scienc 100; 149 (Chick embryo; homoplasti and xenopl sti tra pla tation, induction of lat ral moto lumn by limb periphery)

1945 Th l fl enc of growing limb on the diff rentiation of somati moto ron in tran pla ted vian pinal rd segment Jour Comp N ur 82 335-359 (Chick; homoplastic transpla ta tion; nd heteroplastic transplantation (al guinea he); relation of pe iphe l load to neuronal diff ti tion)

— 1945 Hyperpla ti hange in th nervous y tem of frog (R na) sociated with multipl functional limb Anat. Rec 93 323 330 (Unilateral multipl limb ; pinal d and medulla; independenc f total ll umber; hyperpla ia of dorsal funiculus; lumbo-sa al d, moto lumn pinal ga glia Qua titative.)

v BÜNGNER, O 1891 Übe di Degen rations und Regeneration vo gänge m Nerven na h V letzungen. Betr path. Anat. allg Path. 10; 321

BUNTS A. T and J S CHAFFEE 1944 Agene i f rp call sum with pos ibl por ncephaly Arch. Neu Psychiat. 51 35 53 (M ; report f cas with diagnosis by means of pneumoenc phalograph.)

BURCH A. B 1938 Suppres io of pars ntermedia f pituitary body in Hyla egilla by ope tions upon the gastrula. Proc Soc Exp Bi l. M d. 38 608 610 (Ca dal transplantation of pr umptive infundib-ulum Phy iologi al nd histological evidenc of up-p ion f pa intermedia)

1939 Co relative diff re tiation f the am phibian p tuitary hypophysis Proc Soc Exp Biol. Med 40 341 342 (Hyla gilla gastrul mecha al epar tion par bucc li nd infundibulum; induc t ve ff t f nfundibulum on pithelial hypophys ; ffec on pigmentation.)

BURKART W 1941 Beitrag zu xperime tellen U te hung übe di Entwicklung de N rvensy tems d Amphibien. 38 p 4 pl. Di sertati Zuri h (Not b tracted in Biologic l Abstracts)

BURKE, V N P SULLIVAN H. PETERSON and R WEED 1944 Ontogeneti hang ntigenic pecif ty of th gans of th hi k. Jou Inf ct. Di 74 225 233 (Gene is of tis specificity l brain.)

BURLET H. M de 1938 An uditory labyrinth f Triton taen tus with only on mi circula nal A ta N land. M rph Norm et Path. 1 49 58 (Extirpati nt ri half oti vesi le; relatio to dif f enti tion development and onnections of re ultant)

and C. VERSTEEGH 1931 A supernume ry ana -o ga in the labyrinth f Echidna Acta Oto-Laryngol 16 516 524 (R port of ; rela ti to pos ibl l veg product f mi-circula nal)

BURNS R K. nd L. M BURNS 1929 Th growth f the whol rganism d f the limb i two peci f Amblystoma united i pa bi is Jour Exp Zool 53 455

BURR H S 1916 The ffect f the emoval of the nas l pla ode on Amblystoma embryos Jou Exp. Zool 20 27

1916 R generation in the brain of Ambly toma Jou Comp Neur 26 203

— 1920 The tra plantation of the rebral hemi phere of Ambly toma Jou Exp. Zool 30; 159 (Ambly toma larvae; transpl ntation of rt bral hemisphere lf ct ry placode; ffect f entripetal growth of ensory fibe on differentiation nd growth of rebral ne rons Lack of effect on l factory function)

BURR, H S 1923 Som exp rimental tudies on the entral nervous ystem Scienc 20: 732 (Ambly toma larvae; mutual transplantation of ye and ear rudime ts; ffect on developme t of rebrum of ponding ide Transplantation of b al hemi phere to t of olfa tory pla ode; pai f brai n rmal diff entiation of transplanted brai afte in vasion by lf ct ry nerve ; graft f pernum rary lfactory placod ; ulti g hyperplasia of ponding ce bral hemispher R lation of periph ral load t entral development i the nervous ystem.)

1924 Some experiments on the tran pl ta tion of the lfactory placode in Amblystoma L. An xperimentally produc d aberrant asial rve Jour Comp Ne 37 455

— 1930 Hyperpla i in the brain f Ambly toma Jour Exp Zool 55 171 192 (A punctatum embryos; grafting f heteropti supernume ary lf ct ry pla ode; b al hyperpla ia t point of ntra f ectopi nerve; hete oplastic grafts of A tigri um placode retention of pecif growth rate; ffect on a sory olfactory structur)

1931 Certain f cto determining the direc tion of growth of nerve fibe Scienc 74: 604-605 (An abstract. Amblystoma; implantation of upernum rary lf ctory gans; ff ct f high metabolic tiv ity high mitotic rate in ttra ting nerve f be)

— 1932 Determinants of organis tion in brai hemispher A Re Nerv and Ment Dis Proc 13 39-48

1932 An lectro-dynami the ry f develop ment sugg sted by studi f prolif ration rate in the brain of Amblystoma Jou Comp Neu 56 347 371 (Embryos; impl ntation of acce sory lfactory nerve induction of mitotic focus ne po nt of ntra in diencephalon; eff ct d mitoti foci as neurotropi gents bearing on l tro-dynami theory f devel p-ment)

and T H. BULLOCK 1941 Ste dy state pote tial diff renc in the ly development of Am-blystoma Y l Jou B l. M d. 14 51 57 (De lin of potenti l diff en t neurulation)

BURROWS M T 1911 Th growth f ti sue f the hi k embryo outside the animal body with pe ial ef en t th nervous system. Jou Exp. Zool 10 63 83

BURT A. S 1943 Chemi al fa to in nerve growth tudied i tissue ulture Vitamin B_1 nd the growth f pinal ganglia Jou Cell Comp Phy 1 21 145-159 (Chi k embryo; ll density nd axon length in tis culture independent f B_1)

— 1943 G owth f pinal ganglia in pl sma from Vitamin B_1 deficient hickens Jour Cel. Comp. Phys 1 22 205 222 (Independenc of ga glion growth fr m B_1 and metabolite conc tration f medium; lation to phy ical consistency f ubstrate)

1943 Neurulation i mechani ally nd hem-i ally inhibited Amblystoma Biol. Bull 85 103 115 (A maculatum and tigrinum; gastrula and neurulae; mechanical p ure chemical treatment; lation of mitoti rate nu le rea f rmed ecretion and tilization of yolk nd gly ogen to eurulation.)

1943 Eff ct of biotin on hick pinal ga glia in ti su culture Proc So Exp Biol M d. 54 191 193 (Failure of biotin timulation f axons neuroblasts spindle lls and mac ophage)

BUSINSKY F C 1941 Th development of the t gmentum va ul um in the ochl f th bob-white quail C linu virginianu L. Contr Bi l Lab Catholi U iv Ame 35: 1 65 (Embryos and dults; histological developme t.)

BUSSELMANN A 1934 Ba und Entwicklung de Raupenoc ll d M hlmotte Ephe tia kuhni lla Z l l Zeitschr Wi Bi l. Abt A. Z it ch M ph. Okol Ti re 29 218 228 (Larva ; detail d histo logical tudy of d vel pment, innervation and ntral onne tion of t mmata)

BUTCHER, E O 1929 The devel pm nt f th omit i the white t (Mus vegi us lbinu) d the fate of the myotome ne ral tube and gut in th tail Ame Jou Anat 44: 381 439 (Hi tologi al tudy)

BUTLER, E G d O E SCHOTTE 1941 Histol ogi l lte tions denervated non generati g limb of urodel l rva Jou Exp Zool 88 307 335 (A punctatum A pacum, T virid ns; relation of denervat t dediff ti tion d bl tema f rmation.)

BYERLY T C W G. HEESEL and J P QUINN 1938 Growth we ght nd ll numbe G neti ffects in the hi k embryo nd hick. Jou Exp Zool 78 185 203 (Cell ount in ne al tube; g netic ff t of b d of f wl on mito i eu l tube; g owth ue and c ll numbe No eviden e f nherent diff nc of mitoti rate in bre ds differing ze)

BYTINSKI SALZ H 1929 Untersu hung ube di D termination und die I duktion fähigkeit inige K imbe k d Anuren. Zeit h Wi Bi l Abt. D Roux Arch f Entw Me h d Org 118 121 163 (Hyl rbo Rana temporaria Bombinato igneu Triton alpe tri g trul ; Vogt method vital taining; loc l sation f p umptive medullary pl te Implantation f p umpt ve plate int bla tocoel ; i duction f ondary plate toxi ff ta f h te pla ti grafts)

1935 H t oplast tra pl tat n f the hypophy in Ambly toma Jou Exp Zool 72: 51 73 (A tigrinum A. mexi an m, terchang f hypophy al alag n; no ff ct on growth rate metamorphosis of host.)

CADENAT M E 1931 Le m l t l rfs dans le bec de lièvr bilatéral total Ann Anat Path. t Anat Norm Méd. Chir 8 353 358 (Hum f tus term; seconda y modif tion muscl inn rvation, as ult f hare lip.)

CAJAL, S R. y 1890 A quell époqu ppara is nt les expansions de cull l nerveus de l moelle épinièr de poulets Anat Anz 5: 85

1893 La rétine de rtéb é La Cellul 9: 119 257

1894 Le ouvell dé ur la structur du y tème erveux che l'homm t chez l verté b é Paris

1899 T xtura del t ma n rvi del homb y de l vertebrados Tomo I. Madrid.

1904 T xtura del tem nervi so del hombre y de los vertebrados Tomo II pp 1150 1152 Madrid

1906 Mecani mo de la regeneración de los rvios Trab d. lab d ave t bi l. d l. Uni d Madrid 4 119 210

CAJAL S R. y 1907 Di histogenetischen Beweis ed Neuronentheori von Hi und For 1 Anat Anz. 30

1907 Le métamophos p écoc de eurofibrill dans la dégénération et la dégénéra ti de nerfs T v d. lab d. rech rch bi l d l'uni d. Madrid. 5 47 104

— 1908 N rvenregeneration. J A Barth Leipzig

1908 Nouvell bs rvation sur l evolution de neuroblaste ave quelque emarqu l'hypothè neurogénetique de H nse Held. Anat Anz 32 65

— 1911 Hi tologi du Systême N rveux, tome ii Paris

1913 E tudios sobre la degen ración y gen racló del l tema nervioso T L Degeneción y regen ración de l nervi Madrid.

1914 Estudi sobre la degeneración y egen ración del l tema nervi T II. Degen ra ión y regeneración de l entros rvio Madrid

1920 Algunas observaciónes contraria la hipotesi syncitial de l regen rac ón nerviosa y eurogene is normal. Trab del Labo de Inv bi log del Dr Cajal 18 275 302 (Animal??; discus ion of the ries of formation of Schwann be th l ontoge y)

1925 Quelque remarqu sur l plaque motri de l langu des Mammifère Tra labo ech bi l Uni Madrid. 23 245 254. (Animal??; ontains bs rvations o anomalous moto end plate in young nimals whi h disappe in the course of maturation.)

1928 Degeneration and regeneration f the rvous ystem Oxf d Unive ity Pre Trans and edit d by Raoul M. May V l I xx / 396 pp V l, 2 viii / 397 pp London. 50

CALCAGNO I R. 1941 Desarollo del has de Hi mbriona va unos (Development f the His bundl in bovine embryos) Rev Soc Argentina B ol 17 213 220 (C llular diff entiation.)

1941 Desaroll del nodulo de T wara embriona vacunos (Development of the T wara ucleus in bovi mbryo) Rev Soc Argentina Biol 17 221 228 (C llula differentiation.)

CALIFANO L. 1926. Sulla f nzione de musc li immobilizzati mediante il tagli dei nervi motori. IV I proc i de drogenativi Ri di Patol. perim. l 32 38 (Dogs; rve ection; dec ea in dehydrogenation in denervated muscl)

CALMAN, W T 1924 Chima ras Dire; transplantation of he ds of insects Nature p 467 Sept. (N new data; reply to articl of Prsibram, Nature 1924.)

CAMERON A. T 1925 Normal variations of percentage w ights of body rgans of the albino rat with changing body weight. Ame Jour Phys ol. 74 151 157 (Quantiative CNS??)

CAMERON M L. 1933 R generation of the periph ral vagus Quart Jou Exp Physiol 23 229 262 (Rabbit ts dogs; cutting rushing of vagu mid-c rvical region. Hi tological and phy l logical demonstration of rege ration.)

CAMPBELL B 1943 Lo f proprioceptive re fl xe f llowing trograd degen ration. Scienc 98 114 115 (Cats; peripheral rve ection, cathode ray oscillography gmental spinal flexe ; l f proprioceptive reflex duri g hromatolys)

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— — 1923 Experiments on th ve sal of the pinal rd in Amblystoma em- bryos t the l vel of the nterio l mb Jou Exp. Zool 38 293 321 (Normal r fl xe and function of limb f llowing operation. Regulation of la and c ll number in reve sed d to rrespond with normal dimen ions)

1924 The ff ct of epl cing the ceph ll end of the embryoni spinal ord by ex t neou medulla in Ambly toma Proc Nat. A ad Sci W hi gton, 10: 64-68 (Amblystoma embryo d larva ; ob rvations on function of forelimb innervated by medull very ma k d hype pla i f m dull t nspla ted into bra hial region)

1924 Experime t on the tra pl ntation f limb i Ambly toma The inne vation nd function f l mb transplanted afte the outgrowth f peripheral nerv Ame Jou Anat 33: 407 419 (Embryos; extirpation of f r limb ft it ha bee innervat d tra plantation 4 5 gment udad; inn rvation by ual b hi l nerve in young mbryos with subseq ent normal f nction f limb; innervat on by pinal nerve in lde embryo with ub equent bnormal function; di us ion of la tors in limb tl acting pp priate nervation L A né Biologique)

1924 F rthe b rvatio on prolif a tl of nerve ll n grafted un t of pinal rd Anat R 27 87 94

1924 The ff t of b late l extirpation f the terio limb rudiment in Amblystoma em- bryos Jou Comp Neu 37 l

1925 Th re ult f ub tituti g an ex traneous medulla f the phali nd of the m- bryoni spinal d i Amblystoma Jou Exp Zool 41 293 338 40 f g (Embryo d larva ; normal conduction through ord fit above opera tion hown by normal wimming and oordina tion, but parti l paraly of ant rio limb in nervated f om medull Hypertrophy f tran pl ted medulla nd egulat on to sembl pinal rd. Role f rchitectoni of ntral nervous ystem in gulati g morphogene is rathe the needs of periphery)

1925 An xperimental tudy of ll la prolif ation in the nterio port on of the spinal rd of Amblystoma Jour Exp Zool 42 333 370 42 f g (Embryo ; tran plantation of spinal d segments to diff ent level f rd; reten tion of characteri tl ll numbe by nt rio gment graft d poste io ly; hyperplasia f cord transplant L-Anné B ologique)

1926 The effect of los f kin nd f mu cl on the developme t f pinal ganglia Proc. Soc Exp. B l Med. 23 696-697

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1926 Experimental studi on morphogenesi n th nervous system. Quart. Rev Biol 1 61

1927 The tran pl ntation of the medull bl g ta into th brachi l gion of the cord in Am blystoma mbryos Jour Comp N 43 143 158 (Effect of position and inherent prolif tive pacity n prolif ration f ll in CNS)

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-- 1927 Experimental studi on Mauthne ll i Amblystoma Jou Exp Zool 48 15-30 (Eff cts of xcision Mauthner ll in embryos on moto oordination.)

1927 The effects of exte sive mu l lo pon th development of pinal ganglia in Amblystoma Jour Exp Zool 48 1 14 (Tail bud embryos; partial myotomectomy; ffects f reduction in mus le and in kin fields on reduction f numbe pinal ganglion lls Quantitative)

-- 1928 Experiments on the reversal of the an-t rior end of the spinal cord in Amblystom embryos Jour Comp Neur 45 191-209 (maintenanc f in-he ent gradient of pr lifer tion in spite of reve sal of orientation; omparison with effects of same operation on othe levels of spinal cord)

1928 Furthe xperiments upon alteration of the dir ction f growth in amphibian pinal nerve Jou Exp Zool. 51 1 35 (Ambly toma; embryos epla ement of limb bud with eye nasal pla ode; 'attractio of dja ent pinal nerv by ectopi ens rgans nonspecifi nature of rve growth.)

1928 The development of the pinal rd in Amblystoma embryos following unilateral myotomec tomy Jou Exp Zool 52 325-349 (Unilateral ex tirpation somite ; ffect on motor areas rd, gmentation motor roots in ab enc of sen ry roots mu culature; di cus ion of en ory and motor seg mentation.)

-- 1928 Furthe experiments upon the trans plantation of embryoni pinal cord gme ts Jour Exp Zool. 52 351 366 (Amblystoma, het rotopic grafting of co d egment into hang of various levels l cord effect f l vel on re ulting hyperpla ia of graft)

-- 1929 Spinal cord in Amblystoma embryos following unil teral myotomectomy Jour Exp. Zool 52 325-349

-- 1929 Experimental lteration of th direction of growth in amphibian pinal rve X[e] Congre Internation Zool. à Budapest. Part I 557 567 (Amblystoma; effect of rapid prolif ration in ttracting nerve fibers ynchronous movement f homologou mm. of normal and grafted limb Pro-blems of directive influenc in growth of axons ation with peripheral rgans)

-- 1929 Some obs rvations upon grafted eye of f og larva Zeitschr Wi Biol Abt D Roux Arch. Entw Mech d. Org 116 555 566 (Rana fusca, embryo ; homopla tic grafting of supernumerary eye to eye fi ld; obe rvation on subsequent fas on and re gulation R lations of optic nerve ; effect of light on pigment migration as related to CNS)

-- 1930 Furthe experimental studi upon mo phogene i in th anterior portion of the pinal rd. Jour Comp Neur 50 521 544 (Ambly toma em bryo heterotopi transplantation of pinal rd gments to new level with reversal of orientation; rresponding reversal of polarity f prolifer tive ent ra; maintenanc of haracteristi prolif rative pacity f graft whol)

-- 1931 Het ropla ti transplantations of mbryonic pinal cord segments in Amblystoma. Jour Exp Zool. 60: 141 171 (A. tigrinum, A. punctatum; heteroplasti grafts of brachial pinal rd, gulation of graft in cell numbe in re lation to portion of rd grafted.)

-- 1932 Furthe experiments upon the develop ment of spinal ganglia in Amblystoma Jour Comp. Neur 54 173 193 (Extirpation f somite pre omitic axial mesod rm in embryo ; inhibition f pinal ganglion development; observations on degree of independent development pos ibl)

-- 1932 Growth l ration and regulation in het ropla tic spinal rd grafts Jour Exp Zool 61 245 276 (Embryos; ub titution of A. tigrinum f A punctatum brachial pinal cord; resultant growth of graft t rate greate than eithe host dono)

-- -- 1932 Experimental bservations pon the developing rat tina Jour Comp Neur 55 473 492 (*Newborn rats; Eect of rearing in light* darkn on development of retina; g ne is of visual purple f rmation; rods and cone co relation of hi tological d chemical diff rentiation.)

-- 1932 Furthe experiments upon celerated growth in het rpolasti pinal cord grafts Jour Comp N ur 56 465-502 (Embryo ubstitution of A tigrinum f A punctatum bra hial pinal rd, homoplasti A. punctatum grafts; ugmentation of growth in heteroplasti g afts xhibit in homo-pla ti)

1933 Experimental studie upon the develop-ment of the Amphibian nervous ystem. Biol. Rev 8 269

1933 Experimental tudie upon the de velopment of the amphibian nervous ystem. Bi l Rev and Biol Proc Cambridg Philos Soc 8 269 310 (A review)

1933 Further experiments upon th extirpation of Mauthne eurons in amphibian embryo (Amblystoma mexicanum) Jour Exp. Zool. 64 415-431 (A mexicanum, A. punctatum; larvae; xtirpation one both M. neurons ; lack of effect on quilibrium, wimming rol in peed and preci movements)

1933 Experiments upon the segmentation of pinal nerve in salamande embryos Proc Nation Acad. Sci U S A. 19 22 29 (Amblystoma xcision f spinal somit s; repla ement of nteri by mall posteri omit xcision neural rest; dependenc of pinal nerve egmentation on rrangement of omite ion no intrinsic nervous metameri m.)

1934 An experimental tudy f pinal nerve gmentation i Amblystoma with ref renc t the plurisegmental ontribution to the brachial pl xu Jour Exp Zool 67 395-441 (Extirpation interpolation of me odermal omite ; corre ponding hange in segmentation of pinal nerve)

-- 1935 The development of pinal gangli following tran plantation of the pinal cord with without somite Anat. Rec 61 441 455 (Ambly toma; heterotopic tr nspla tation of pinal rd with without somite dependenc of segmentation f pinal ganglia on segmentation of dja nt me od rm.)

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1937 Doe the developing medr lla in fluenc llula prolif ration withi the pinal e d? Jou Exp Zool 77 109 122 (Amblystoma m-bryos; placement f medulla by spinal d pa abiotic fus on; normal development of d n operat d n mal ; lack of timul tory ff ct of medull ry pr jection fibe)

1937 Sub titut on of lateral f l me oderm n lation to the d velopment and g mentation of pinal ganglia Jour Exp Zool 76 35 45 (Ambly toma embryo ; sub titution of un gme t d late l f gmented brachial me od rm; normal development of limb bnormal gment t numeri l ducti of b chial nerve ad ganglia O gin of o um f om neural t)

1937 Observations pon th migration f ne ral c t lls and upo the developm t of the pinal gangli and vertebral rche Ambly toma Ame J ur Anat. 61 63 94 (V tal tain g eurula; migration f re t ell f rm t on of pinal ganglia nd ympathetic ga gl a; eff t of myotom on segme tation of ganglia)

1938 Het roplasti transplantat on of omit Jour Exp Zool 79 361 375 (Ambly toma punctatum A tigri um; mbryos; f ilur f inc d periphe l f ld to nduc pinal hype plasia due to in rea in size the the numbe of tra splant d mu l fibe)

1940 Unilateral aal of the antero-post ri am of the m dull n Amblystoma Jou Exp Zool 84 13 22 (Labil ty of determ nation in mbryo; polarization; djustment of Ma thne f b rs and v tibula pparatus)

1943 R ve sal f the m dull n Ambly toma embry ; Jour Exp. Zool 94 169 179 (Ex ision d eimpl ntation; labil ty of tructural nd functional diff entiation.)

1944 R t tution of the m dulla f llowi g unilat ral xcision th mbryo Jour Exp Zool 96 129 142 (T tipot cy of medull ry f Mauthne fibe nd tibul pparatu R gene tion)

1945 Th ults of unil t ral and bilateral xtirpation of the f b ai of Ambly toma Jou Exp Zool 100; 103 117 (La va extirpation re bral hemi ph y nasal pla ode ; deque y of lat ral li sense ga fo moto t vity; om pens tory ips lateral gr wth; b ra of morph genetic ffect of rebral h misphere on medull Effect of nasal placode on hemi phere rege tion)

1946 Midbra gene tion in Amblystoma Anat R 94 229 237 (Unilateral exc on f m d b ain, c ful generation by p lif ration of do sal portion intact wall oppo t evidenc f ephali c udal prolif ration)

and W M. COPENHAVER, 1940 The d velopmental behavi of Ambly toma gg subject d t tmosphere of low oxyg n d high bon dioxide Am Jou Anat 66 393-410 (Production f mi rocephaly ey defects; n twinni g)

1940 The growth nd pigmentary pons of ey l Ambly t ma embryos re red i light d l da kn Anat R 76: 241 255 (R lation f enucleation to time of metamorpho i and pigme tati in light d l da kn)

1941 Furthe xperiment po th p oduction of developmental bnormalitie i Ambly toma Jou Exp Zool 88 399 410 (Egg ; tre tment with low oxyg n o high CO2; uppre ion of bilate ality of bra and en e g n ; ffect f inhibito on pre ho dal me oderm)

194 Fu the xpe ment dealing with embryonl nucl tion in Ambly toma Proc Soc Exp. B l. nd M d 51 334 335 (A punctatum tigri um nd m xi um, ffe t of vi ual timulation on growth t olo ha g metamorpho i nd gonad d lopment)

and K. KEHOE 1939 F rthe ob rvation the rigin of the h th ll of Schwann Jou Exp Zool 81 415 433 (Amblystoma vit l ta l g of n f re (nd medullary plate; rigin from ne ral t migrati of h th ll a midl ne)

and R W LEWIS 1925 S hang in p imary b hi l mot n r ne f llowing l mb ex on Ambly toma mbryo J Comp Neur 39 291

nd B L Mis LEAN 1932 Cellula p o-lif rati n the pinal d (Ambly toma f llowing tran ct on nd eplantat on of va ou mbryonic c rd gme t Jou Exp Zool 62 433 451 (Em bryo t nsection and he ling enci on nd pla tat on of c rd, la k of nfluenc of operati pe on ll la hype pl)

1940 Substit tion f l mb f brachi l somite Jou Exp Zool 83 445 456 (Ambly t ma emb yos; hete otopi tran pl ntation; la k of lation of peripheral f ld to numbe of rve fibe numbe ll n p nal rd, m hani al d placem t of pinal co d.)

and R H. V nDYKE 1934 F rth obse vations upon bn rmal growth ponse of pinal rve Ambly toma mbryos Jou Exp Zool 69 137 164 (Hete otopi tr nsplantation f ye nasal pla ode Deviation of pinal nerves tow ds graft ndepe dent f peripheral onnection. R lation of growth e pons to prolif ration in g aft)

DEVAUX, E. 1924 Le phy i logique de la preému en de rveau hez l Homme R vu Scientif 62 481 488 5 f g (Theoretical dis us ion f the ffe t of long g owth period on th maturation d laboration f the CNS No data)

1931 La grad de peci lisation é ébral Rev Gen. Sci. Pure et Appl 42: 147 152 (Ma l bo t ry mammal birds ins t ; l f mbryonic lls mainl g l brain t birth on dev l pment of dult b ain t llig nc)

D BRIES E 1927 De ription f young human ane ephal and amyeli embry Anat R 36 295 317 (Anatomy of mbryo with CNS on i ting only of f rebrain, ra ial nerve I nd II om moter rv with no tral onne tions att d pinal ganglia mening and emnants of ord.)

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FISCHER, F C and H HARTWIG 1938 V rglei hende Me sungen d Atmung de Amphibienkeime und ein T il während de Entwicklung Bi l Zentralbl. 58 567 589 (Manometric det rminations; oxygen onsumption of developing g rm nd larva explanted medullary plate Quantitative)

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FLEXNER, L.B 1928 The development of th meninges in amph bia A tudy of normal and experimental aimal Pr liminary note Bull Johns Hopkins Hosp 42 67 69 (Not abstra ted i Biologi al Ab tra ts)

1929 The development f the meninges i amphibia tudy of normal and experimental animals Carn gi In t W h. Publ. 394. Contrib to Embry 20 31 49 (Amphibian ??; embryos; het rotopi transplantation of brain d pinal rd, with nd without ex l re t; rol of neural rest nd of ob pinal fluid the development of the meninges)

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1928 Zu Topographi der Ganglien de m ns hli h n H rzens (Topography of the ga glia of the human he rt) Z it h Ö Anat Abt. I Z it h Anat. u E twi klung ge h 85: 131 165 (Human embryo reconstruction of he rt; topography of onducting y tem and gangli)

FRANK, A 1927 Vý j převodního ystemu vláknem Purkyňových v rdci holubu (The development of the onductive ystem nd the Pu kinje fibe s in the pig h rt) Rozpravy Č ké Akademi Véd a Uměni 36 1 34 (Pig on mbryos; hi togene i of Purinje f be oppo d to re t of conductive ystem.

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FREUND L. 1926 Erweiterung d Hirnventrik l (Hydrocephalus) und Ra senbildung (Enl rgement f the vent icle of the brain (Hydrocephalus) and the f rmation of breeds) Z itschr T rzucht. u. Züchtung bi l Ti rernährung 6 513 520 (Geneti pects of hydroc phalus; ffects on be lth ad production of animals; theoretical dis us ion, no new data)

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FRIEDMAN B 1934 The m odermal lations of the par buccali f the hypophysis in the duck. Jou *M rph. 55 611 631 (Do k mbry ; morphogen i* diffe ential growth; relation of hypophy eal anlage t prech dal *mesoderm;* onsideration *of* entodermal ontributions to hypophys)

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FRIES, B.A. and L.L. CHAIKOFF 1941 The phos phorus metabolism of the brain as mea ured with dioactive phosphoru Jou B l Chem 141 479

G W CHANGUS and I.L. CHAIKOFF 1940 IX The influenc f g on the phospholipid me tabolism f various parts of the entral nervous ystem of the rat. The omparative pho pholipid tivity of various parts of the CNS of the rat Jour Biol Chem. 132 23

C. ENTEMMAN G W CHANGUS nd I. L CHAIKOFF 1941 Depo tion f lipids in various ✓ part of cent al nervous ystem of developing rat. Jour Biol Chem. 137 303 310

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FROHSE, E. 1898 Übe di V rzweigung de N rven und in den mens hlichen Muskeln. Anat Anz 14 321

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1926 R sultats de la décapitation et greff d la tête d'Insecte adulte d différents ordre Bull Soc Entom l. F 4. 47 52 (Insects from many rd ; tim of survival of various ins cts after decapitation; head grafting i different order with no suc es See work of Finkle and Kahn)

GALEOTTI, G and O LEVI 1895 Übe die N ub ldung de nervösen Elemente in dem wiede zeugten Musk lg webe Beitr path. Anat. u. llg Path 17 369

GALLERA, J 1934. Expérien i ction de la pre on sous blastodermique ur le mbryons d oiseaux Bull. Int rnat. Acad Polonai Sc t Lett Cl. Sc Math t Nat. 54 B Sci Nat (II) (Zool) 1934 73-83 (Chick embryos; injection of ai bubble unde area pellucida i primitive teak and head proc tage Retardation of somit va ula d nervou development. Experimental terat l gy production of cardioc phali omphaloc phali and platyne rian monste)

GANFINI, G 1930 Sulla rigine degli lamenti che formando la bolla gelatinosa del midoll lombo-sa ral degli uccelli (The rigi f the lament ompo ing the gelatinou vesi le of the lumbosacral pinal rd b rds) Ri Sperim. F enlatria 54 484 499 (Chi k embryo origin f ve i l from 'vesicula glycogenic tissu ; morpho- and hi togene i)

1933 La cisterna magna in embrioni di mammif ri nell'uomo (The isterna magna in mammalia embryos and in man.) Ri Sperim. Frenlatria 57 299 313 (Dog guinea pig rat (no direct b *rvations on man); embryos* nd *dults;* review of the ri on ommunication of the f amen f Magendi)

GARLING-PALMER, R. 1928 Une anomali de itu tion du nerf median bras (Anomaly of position of median nerve to the rm) Ann Anat. Path. et Med. Chir 5 332 333 (Man; ec ur enc of median nerve posteri to its usual position.)

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FOLCO M. 1936 F rmation of Luschka f ramen nd of ubarachnoid pa in c rtain mammal Riv pe di l mist 60 322 332

FOLEY J O 1931 The cytol gi l proc involved in the formation of the scala of the internal Anat R 49 1 13 (Pig embryo; hi tology; rol of mechanical growth stre in vitation of i ternal ar)

FONTÉS J 1925 Sur l physiologi du muscl énervé de la Grenouill À propo de la communi tion de Breme t Gérard 'Conséqu nc de l éne vation du muscl trié dan l érie des V rtéb é C R Soc Biol 93: 1545 (Observation on pharmacological action of veratrine on denervated frog ga trocnemius lectri al excitability f tigue)

FOREL, A 1889 Note ur le travail p é édent (Le travail prec dent H Schiller Sur le nomb t l alibre de fibre nerveus du nerf oculomoteu ommun he l chat nouveau né et che l hat adult) C R A d. Sci Pari

FORSSMAN J 1898 Übe die U hen welch di W chtumsri htung der peripheren Nervenf rn bei der Regen tion bestimmen Beitr path. Anat 24 56 100

— 1900 Zur Kenntni de Neuro-tropismus W ite Beiträge Beitr path Anat 27 407-430

FORSTER, L. 1902 Note on foetal muscl pindl Jour Physiol 28 201

FORT W B 1940 An experimental study of the facto involved in the tablishment of neuromuscul onnections Dissertation: Unive ity of Chicago iii+ 88 pp (Buf t rastri B fowleri; pontaneous and experimental hyperneurotization; relation of fibe growth nd e tablishment of peripheral conne tion to denervation; moto end plate regene ation; hi to logical and phy iologi al tudy)

FRADE, 1938 Contribution l étude de l igin du ganglion de Ga e chez l embryon d Sternothoerus d binus Gray Arch. Biol (Paris) 49 617 627 (Hi tology; origin from phthalmi and maxill mandibula placode)

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FRANCESCON A 1929 Relation between regeneration of chorda do salis and regeneration of tail in ura Boll. d Soc Ital di Biol per 4 318 323

1933 Ric rche al nervo vago ul im patt rvicale del Chelonl (The vagus nerve and th rvical ympathetic of Chelonl) Arch. Zool. Ital 16 695 696 (T tudo gra ca Emys europaea; G]gl impregnation; embryo nd adults; gene i of definitive relations of cervical sympathetic trunk and bulboparasympathetic ystem.)

FRANCILLON M R. 1926 Übe die Beziehungen de Phrenicus zu Peri ard und Pleur peric rdiaca

(R lations f the phreni n rve to the peric rdium d peri rdi l pleu) Anat. Anz 71: 235 243 (Animal?? embryo ; demonstr tion f rami peri ardia l t pl urale of phreni nerve in normal fetal developm t)

1928 Zu Topographi d r Gangli n de m ns hli hen H rz ns (Topography l the ga glia of the human he rt.) Z itschr Ge Anat Abt l Z it h Anat. u. E twi klung g ch 85 131 165 (Human mbryo recon truction of he rt; topography f onducting sy tem and gangli)

FRANK, A. 1927 Vývoj převodního y t mu vláknem Purkyňových v rdci hol ba (The development of the onductive sy tem nd the Pu kinje fibe in the pig on he rt) Rozp vy C ké Akademi Věd a Uměni 36 i 34 (Pigeon embryos; hi togene is of Purinje f be oppos d to re t of onductive ystem.)

1927 Le développeme t du Système de on duction et de fibre d Purkyně dans le cœu du pigeon Ac d. Tchèque Sci Bull Internat. Rés. Tr Pré ent Cl Sci Math Nat t Méd. 28 420 430 (Not ab t cted in Biologic l Abstracts)

FRANK, G M 1925 Üb Ge tzmä igk iten in d Mito avert ilung in den Gehirnbla n im Zusammenhang mit Formbildung proze en, Arch f mikr Anat. u Entw Me h. 104 262 272 (Chi k mbryo; ff ct of mitotic index on morphogene i of bra n disc ed l relation t Gurwitsch' theory of mitogenetic rays)

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FRASER, J 1929 Spina bifida Edinburgh Med Jou 36 284 310 (Di ussion of commoner forms of pina bif da in man the ris f caus tion de ription f normal development of rd nd that in pina bifida)

FRAZER, J E. 1928 (1929?) Development of the region of th isthmus hombencephali Jour Anat. 63: 7 18 (Man; embryos; fat of alar and bas) laminae; m rphogenesi of nucle and tracts of 4th nd 5th nerve)

1935 A curious bnormal human brain. Jour Anat 69 526 527 (Fetus infant f unknown history; fusion of rebral hemi phere exposure of 3rd and late al ventri l)

FREUDENBERGER C B 1932 A ompari on of th Wi tar albino and the Long Evans hybr d train of the N rway rat Ame Jour Anat. 50: 293

FREUND L. 1926 Erweiterung der Hirnventrikel (Hydrencephalus) und Ra senbildung (Enlargement f the vent i le of the brain (Hydrenc phalon) and the f rmation of b eeds) Z itschr T irzucht. u Zu htung biol Ti rernährung 6 513 520 (Geneti pects of hydrocephalus; ffects on health nd production of animals; theoretical discussion, no new data)

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1944 Parietal occipital vity of huma brain C R 218 521 523 (F tus ; morphogene is f lcus pa acal rinus)

FRIEDLÄNDER, B 1894 Beiträge ur Phy iologi de Zentralnervensystems d de Berw gung m hanismus de Regenwürme Arch. ge Physi l 58 168

FRIEDLANDER, H. D L PERLMAN and I L CHAIKOFF 1941 Th ff ts of de rvation on phospholipid ctivity of keletal muscl as measured with dioactive phosph rus Am Jou Phy i l. 132 24 31 (Animal?? inc ea in depo ition of phospholipid pri to demonstrabl trophy of muscl)

FRIEDMAN B 1934 The mesodermal relations of the par buc ali f the hypophysi in the duck Jour M rph 55 611 631 (Du k mbryo ; morphogene diff ential growth; l tion f hypophy eal nlag to prechordal mesoderm, consideration of entodermal contributions to hypophy i)

FRIEDRICH FREKSA H 1932 Entwicklung Ba d Bedeutung de Pari talg gend be T l osteen Zeitschr Wi Zool (Le pzig) 141 52 142 (Core gonus macrophthalmus and othe f h; be rvation on living pecimen dissection, ctions; m pho nd histogen is of pineal and parapin al bodi central connections vascularization; de ription of ration.)

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GADEAU de KERVILLE, H. 1924 Conséquence de la ligature de la tête ve ou ans déc pitation hez le V oi du Mûri (Seri ria mori L. moment de la nymphos Bull. Soc Entomol F: 69 70 (V ry high perative mortality; ffect of experimental tre tment in inhibiting development f he d and ante l thoraci gments of dult Inconclusive f technical easons)

1926 R sultats de la décapitation et gref d la tête d'Insecte adulte de diffé ents ordre B ll Soc Entom L F 4: 47 52 (Insects from many rd ; tim of survival of various insects aft decapitation; head grafting in diff ent order with no es Se work of Finkle and Kahn)

GALEOTTI, G nd G LEVI 1895 Übe di N ubildung de rvösen El mente in dem wi de engten Muskelgewebe B itr path. Anat. u. a. llg Path 17 369

GALLERA J 1934 Expérien su l action de la pre sion ous bla todermique ur le mbryons d ois ux Bull. Internat. Acad. Polonai Sci et Lettr Cl. Sc Math. et Nat. S4 B Sci N t. (II) (Zool.) 1934 73 83 (Chick embryos; l jection of air bubbl unde area pellucida of primitive steak a head proc stage R tardation of somite ve ula and nervous devel pment Experimental teratology; production of rhoc phali omphalocephali nd platyneurian monste)

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and V HAMBURGER. 1943 The develop-mental potenc of eye primordia of homozygous C eope hi k embryo t stad by orthotopi tra plantation. Jou Exp Zool 93 147 181 (Geneti s; orthotopic tr splantation indirect gene ll ts of rreand g ti n on d velopment of optic p

GELDERN Ch van 1926 Di Morphologi de Sinu durae matris V rt Teil Di ve gl hende Ontogeni de Hirnhäute mit be ondere Beruck ichtigung de Lage de neurokran ll n V na (M rphology of the inu of the dura mate P rt IV Compa tive ontogeny of the meninges with pecial ef renc to the po ition of th neurocranial vein) Z it chr Anat E twi k 78 339 449 (Ontogeny of meninges throughout the V rtebrate rie)

GELMA E nd M. ARON 1926 Action ompa de l morphine t de la malonylur sur le d veloppem nt de larve d anour (Action f morphine nd somni fene on the developme t of larval anur) C R. Soc Bi l 95 696-697 (R na tempo ari re t f development by somnifen (pecific ction on ne rone) t time of dill rentiation of nex on gene al atom c ti g ffect of mo phine no pecific tion)

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1941 Cell olumns i huma fetus of 14 weeks Jour Anat. 75 145-152

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1941 Development and ignificanc of ll olumns i ventral horn of rvical and ppe thor ci pinal rd f rabbit. Jou Anat. 76 112 130

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1938 Diff entiation in cultur f piece f the ea ly chick bla toderm. II Short primitive treak stage Jour Exp Zool 79 399 426 (Is l tion nd explantation; omplete hi tological diff enti tion of neural tructure)

RUFFINI G 1922 ? Sulla diff nziazion f tal in ona tr l pens on rvos del en utaneo qu lle del senso musc la ll'uom Monit Zool. Ital 33 (Human fetuse ; early d lopment f rgans of muscl en Histological study)

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SANCHEZ y SANCHEZ D 1923 L'histoly dans l entre veux de Ins cte Trav du labo de h b l d l Unive té de Madrid. 21 385 422 (Pi ris b ; hi tologi l tudi on dege ration d rege ration of tina nd nerve ent du ing ns ct m tamorpho i)

1924 Influe ce de l'histoly de nt rveux de Ins te ur l métam rpho Trav du labo de h b l de l'Uni ité d Madrid 22 209 233 (Also publi h d Lib en homo del Dr S Ramon y C jal R l f eu ophagocyto is d degeneration breakd wn f CNS bef re pupation bef re b eakdown f any th gan ystems P bl trophi ff t f CNS d rol n tarting meta morph Lack of equilibrium between ganism and ts envi onment ba us f metam rphosis M l ula th ry)

1925 L'hi togé 'e dan l entre rveux d In ect penda t l métamorphos Tra du labo de re h biol de l Unive té de Madrid. 23 29 52 (Di cu on of gen ral ons de ation f f cto f m tamorpho of ent l rvou y tem f nsects H toly d egen rati f dult tructur Litt no new data)

SANDERS F K. and J Z YOUNG 1942 The d g tion and re un vation f grafted rve Jour Anat. 76 143 167 (Rabbit; pe oneal rve; fre h p edegen rated d lc hol and f rmol fixed uto and homografts; dog rat heterografts; hi t logi l tudy f fibe gen tion myel d gen rati n, S hwann ll growth, lymphocyti reacti macro-phag inva on)

1944 Th rol f the periphe al tump in th tr l f fibre diamete in eg nerating erves Jour Phys l 103 119 136 (Adult bbit; p riph ral rve ; ti nd tur ; lati of Schwann tube t t tion f f b is pattern. Quantitative)

1945 Eff ct of periph ral onnexion on the diamete f rv f b N tur (London) 155 237 238 (Adult rabb ts; peroneal rve rushing nd tion; trophi ff ct f en ry and m t onnections on fibe diam te)

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SANTAELLA, A 1933 34 Le ympathique dans les premfe pe iodes du développement Arquivo Anat Ant op (Lisbon) 16 179 191 (Chick embryo; bbit embryo; hi tologic l tudy of ympatheti hai nd ram ommunicante)

SANTHA K. v 1930 Ube da V halte de Kl n-hirns l inem Fall von ndogenafamiliäre Idioti (Zur Diff entialdi gnos de Mari hen und de onstig dogene Kl ahirn krankungen nebst B itrag zu Lehr de Diplomyeli) Zeit hr G Neur u. P y hiat 123 717 793 (M ; ndogenous gme tal d ge tion f bellum in idiot with doubl spinal rd.)

SANTOS F V 1931 Studi on transplantation Pl naria Physi l Zool 4 111 164 (Planaria d rotoc phala P maculata Tra plantation of head ganglia into po t phali gion; migration of grafts ndu tion of secondary he ds)

SARTORI, C 19 6 Sur la gr ff d ti us mbry nnaire (Graft f embryoni tis es) Arch. Ital Bi l 77 65 72 (Su ful implantation of embry nic eye in anteri eye chambe rabb ts)

SARVA AS G J du MARCHIE 1930 Ube ine F ll von te toide Ne bildung der Hypophys geg d Frankfurt Z its hr Path. 40: 210-223 (Man; port of case of hypophys al tumo ontaining brain nd glial tis ue)

SATO T 1933 Ube di Determination de f tal Augenspalte b Triton taeniatus Z tschr Wl Bi l Abt. D Roux Arch E tw M ch d Org 128 342 377 (Embryos; rotation f opti up; ffect on po tion of horo d fis)

✓SAUER, F C 1935 The llula tructure of the ur l tube Jour Comp Neur 63 13 23 (Pig hi k and t embryo ppe ranc f yncyti l groupi g f ll m fixed material dependent upon time nd m thod of fixation.)

1935 Mitosi in th ural tube Jour Comp Ne 62 377 405 (Chick nd guinea pig mbryo cytol gy f pongiobla te nd germinal ll m gration l tion to mito rol f term in l bers)

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1932 Di Entwicklung de Augapf l und Skl lknorpels von Necturus maculatus F lia Anat. J poni 10 169 192 (Histogenesis of rve ll f retina; pigmentation nd va ularization f ye; developm t of scl ra; embry and larva)

SAYLES L. P 1943 Implants consisti g f young buds f rmed i anteri regeneration in Clymenella plus the nerv d f the dja t ld part. Jour Exp Zool 94 145 159 (Effect of graft nd region f host on head diff rentiation)

SCAHEPPI, R. 1909 Kritis he Beme kung zu Frage nach de E tstehung de Nerven. Anat. Anz 35

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SCHADEWALD M A. 1941 Effect f cutting th trochlea and bduc ns rve on th nd bulb bout the lls of the co re ponding nuclei Jour Comp N ur 74 239 246 (Cats removal of contents of rbit, degeneration; l k f effect on boutons termin ux in trochl and bducens nuclei)

1942 T ansynaptic effect f eonatal axon ection on bouton ppe ranc bout omati moto ll Jour Comp Neur 77 739 746 (Neonatal kittens excis on lat d femoral rve nucleation of rbit ilve sta ns pinal rd nd brain tem; umbe nd time of ppe ranc of ynapti t rminal depe dent of periphe al onnec tion (N tra synaptic ffect.))

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1898 Experimentale Studien an Amphibi larven I Arch. f Entw M h. d. Org 6 151 197

SCHARPENBERG L G and W F WINDLE 1938 Development ilve tained he p embryo rrelat d with ea ly omati movements Jour Anat. 72 344-351

SCHARRER E. 1940 F rthe xperiment the generation f nd rteri in the bra f the opo um Jou Exp. Zool 85 365-377 (Opo um at guinea pig; noplasti tran pl ntation de d brain ti ue; f fect f host ti ue on determi ing pattern of cularia tion)

SCHAXEL, J nd M HAEDEKE. 1920 R g ne tions und Tra plantations tudi III Übe A gen-tra plantationen (Tra plantation of th ye) Zool. Anz. 78 164 169 (Axolotl ; suc ful ne tomic l generation of tiss f llowi g ye g ft; functional f il due to me hanical difficulti)

SCHECHTMAN A. M. 1934 Th o ganise in T iturus to us (Rathk) and its rol i the devel p-ment of the m dullary pl te Univ C lif Publ Zool 39: 277 292 (Explantation f tis u fragme ts f mbryo into blastocoel in vitro vital taining; partial lf diff tiation f medullary plate not in ontact with archent ron.)

1935 The determination f the medullary plate in T ituru torosus (Rathke) U v Calif Publ Zool 39 393 408 (Explants f urodel blastula and gastrula fragments into H ltf t Failure of medullary diff re tiation in b enc f ontact betw en presumptive plate and archente on oof)

1938 Competen f neural plate f rmation Hyla and the o- all d nervous laye f th to-d rm. Pr Soc Exp Bl l M d. 38 430 433 (R l tion to g and loc tion in mbryo of neural om petenc f ectod rm.)

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SCHEPETYNSKAJA, A 1928 Ei Fall von Cyclopia v ra omplete (A case of cy lopia) A ch. Kl de heilk. 83 286 289 (Ma)

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SCHIMERT J 1935 F rmation of medullary heath vegetative rve Z ts hr f mik nat F h. 37 581 594

1937 Experimentell Unte suchung n ube die transneuronale Degen ration V rhand. d. Anat. G ll E gäzung x. 83 d. Anat Anz 148 152 (C ti one d d ection f p ega glionic rvi l f b bil teral cti internal carotid rve fail f myelinization de with p ganglioni ec ti n. I terp ted ff ct of nerve timulus on my linization.)

1937 Di Nervenve so gung d Myokards Z tts hr Z llf sch. u. Mikro k Anat 27 246-266 (Embryo ma nd t; dult cats extirpati f stellate ga glia section f vagi and nn. vertebrali pinal ganglia; m gration d histogene f sym patheti nd Schwann lls tudy of nerve ending f h rt rve of upply f diff rent gions)

1938 Transplantation ympathesche Gang li a. V handl Anat Ge ll 85 173 181 (Rats ta; transplantation f uperi rvical ganglia t periph ral stump l hadi rve; histologi al demonstration f regen ration down nerve; no con ections with end plate)

SCHLIEFER, W 1935 Di Entwicklung de Hypo-phy bei Larv n von Buf vulgaris bi zu M ta mo phos n b t U te hungen über den Einfl h rmonal Sub tanz n uf di us re Entwi klung d Larve und di Gene d Hypophys Zool. Jahrb Abt Anat u. Ont 59 383 454 (M rpho-and hi tol gical de ripti f growth of hypophy is; quantitative r lation betw gla dul growth nd p od f devel pment, n te on ff cts of hypo-phy ial nd thyr id extracts growth and meta morph is f larva)

SCHMALHAUSEN J 1927 Beitrage zu quantita t ven Analys de F rmbildung I. Übe di G tz mä sigk te d mbryonal W hstum Arch. f Entw Mech. d. Org 109: 455

SCHMIDT G A. 1933 S hnurung und Durch hn dung ve su he n Anurenk im Zeit hr Wis Bl l Abt D Roux Arch. f. Entw Mech d. Org 129: 1 44 (Bombinato Rana; ligation f g rms t diff nt tag f development; tim f l of regul tory pa ty f medullary plate)

1938 V te du pro- su d régulation d l plaqu ne ral Ar h. Anat Mi ro (Pari) 34 5 22 (Bombinato pachypus B igneu ; ligature f g rm; determinati of time f los of egulative properti f rvous y tem.)

SCHMITT F O 1941 Some protei patterns in ll G owth Suppl 5 1 20

R S BEAR nd G L CLARK. 1935 Th rol f lipoids in th X ray diffra tion patt rn f erve Sc nc 82 44 45 (Demonstration of pol ized arrangement of fluid rystals of myelin sh th.)

G L CLARF and J N MROUD-ICH. 1934 X ray diffraction tudi on nerve S i nc 80 567 568 (W de variety f rve ; longitudinal ri ntation of protei hains and perpend cula rientation of lipids cting as pac)

SCHMORL G 1928 R ma f otochord in bodie f vertebra Zentralbl. f Chir 55 2305 2310

SCHNEIDER, G 1940 De Einflus de N rvensys tem uf di R ge rati de Extremitaten de Axolotl Zool Jahrb Abt. Allg Zool u. Phys ol. Tie 60 73 102 (S ration placif rme amputation hind limb section pinal rve 15-17 trophi ffect of rve on ge ration, effects f starvation, devia tion on our f nerve)

SCHNEIDER, K. 1930 D Einflus de Sympathicus uf di que g streifte Muskulatur Pfl ge A h. Ge Phys l. 225 6 18 (R petiti f wo k f Buitn nd Heimb ht Frog; unilateral sympathectomy; failur to find inc ea ed ontra tion re t f triated mus l on den rvat d de)

SCHOTTÉ O 1922 Influen de nerf su la égénération de patte antérieure de T ton anouré C R. Séanc Soc phy t hist nat. de Genève 39-67 70 and 85 89 (R tardation f regeneration rat f anteri limbs f llowing section of or esponding nerve in Triton.)

1923 Influenc de la tion tardive d nerf ur le patte de Triton égé ération C R Soc Phy t Hi t. natur Genève 40 86-88 (Influenc of tim of ection of nerve to regen rating limb on arrest f regen ration.)

SCHOTTÉ O 1923 Régénération t système nerv ux hez l larve de Batra iens urodèl C R. Soc Phys t Hist. natur Genève 40 100 (Sala mande and Triton larva ; section of limb rve at arious tim preceding limb amputation. Depend nc of regeneration on (p obably ympatheti) ompon nts of rve)

1923 L suppre si partielle de l innerva tion t la égénération de patte chez l Tritons C R Soc Phys t Hist. natu Geneve 40 160 (Triton ristatus T Alpe tris T Palmatus re ect on of one or more b ches brachial plexus Speci diff ren es in regen ration Relation of volume of regen rating nerve to rat of generation f amputated limb)

1924 Le grand ympathique t l rol f cteur rveux de la régénération de memb de Tritons C R. Soc Phys et Hist natur Genève 41 45 (Extirpation of rural pinal ganglia l ving mi communicante inta t; regen ration f amputat- d l mb in complete b nce of sensory nd moto innervatio pre enc of ympathetic supply)

1926 L égénération de la queue d Urodèle et liée à l integrité du territo ca dal. C R. Soc Phys et Hi t natur Genèv 43 126 (R lation of level of tail amputation to po bility of egeneration.)

1926 Hypophysectomi t égé érati hez l B traci ns Urodel C R. Soc Phys t Hist natu Genè 43 67 (Adult and larval Triton larv l Salama dr N ff ct f hypophysectomy on gener tion larval Triton; supp ion in adult Triton and larval Salama dr)

1926 L importa du système nerveux ym- pathique dans la régénération de patte hez le T ton (The sympatheti rvous system reg neration of xt emiti Triton.) C R Soc B L 94 1128 1129 (Triton; regeneration of limb f llowing t on of d al and ventral spinal oots but with inta t mi ommuni ant ; f ilure f reg neration f ll w ing ection of ympatheti pply with intact pinal rve Dependenc of regeneration on sympatheti innervation.)

1926 L rol du milieu interieu dans la égénération de Batraci ns Urodèle (R l of in ternal nvironment l egeneration f urodel) C R Soc Biol. 94: 1177 1179 (Triton, salamande g ration of limb in hypophysectomiz d nimal ; rificatio f W ite sults (???); ffects of thy d and hypophysi on sympath ti nervou ystem)

1926 Nouvelle pr uve physiologiqu de l ction du ystème nerveux sympathique dans la égé ération (Infl enc of the sympatheti nervous ystem on regeneration) C R Soc Phys t Hi t. natu Genèv 43 140 143 (Trito ; amputation leg ; ffect of rgotamin tartrate and belladonna lkaloid (whi h paralyze the ympatheti nervous ystem) on inhib ting bla tema regeneration.)

-- and E G BUTLER 1941 M rphol gi al ffects of denervation and mputation of limbs in ro- d le l rva Jour Exp Zool. 87 279 322 (Larva Ambly toma punctatum A opacum Triturus virid cens repeat d resection bra hi l plexus; ffect of inn rvation on morphology f limb g on and egene ti fte amputation)

1944 Phas reg neration of th rodele limb nd the dependenc upon the nervou ystem Jou Exp Zool 97 95 121 (Larval Amblystoma; nerve resection nd limb mputation; d pendenc f pe ific regenerative proc se but ot morphogeneti proc on an rvation.)

SCHOTTE O E G BUTLER nd R. T HOOD 1941 Effects of transplant d blastema on mputated nerval limbs f urodel larva Proc Soc Exp. Bi l Med. 48 500 503 (Amblystoma; ff ct f blastema on dediff rentiat on of denervated amputated limbs)

and M. HARLAND 1943 Effects f denerv tion and amputation of hind limb in Anuran tadpoles Jour Exp Zool. 93 453 490 (Rana pipiens R. lamitans R te biana, re ection ciati imultan ous mputation limb; lation of in rvation to de diff rentiation, blastema f rmation regene tion.)

nd A. G KARCZMAR 1944 Limb para mete and regre sion ate in den rvated mputated limbs of urodel larvae Jou Exp. Zool. 97 43 70 (Amputation nd b rvation of dediff entiati n; relati f regr on rate with ti ne mea Quantitative)

1945 T mperature nd regr ion ate in denervated mputated limb of urodel larva Jour Exp Zool. 99 235 261 (Amblystoma puncta tum Triturus viride ens; denervation mputation, tempe ture effects calculation f Q_{10} fo regre sion. Quantitative)

SCHRADER, K. 1938 Unte uchunge üb di Normalentwicklung de Gehirns und Gehirntrea pl ata ti en be de Mehlmotte Ephe tia kühni lla Zell neb t nigen Beme kunge übe da Corpus allatum B l Zentrabl 58 52 90 (Development of brain from gg to full grown l rva; prepupa pupa imago Lack of ppare tly retory ell relative growth f brain deg neration and egeneration t metamorph utonomou devel pm t demonstrated by trans plants; ffect f periph ral f ld on developme t of brai t Sex dimorphi m in corpora allata)

SCHREIBER G. 1930 Studi sul pigmento romolip d l pparato fene trato la re pi azione di ppl mento del tema nerv (Stud on chromolipoid pigments th f trated pparatus nd the uppl mentary piration of the nervous ystem.) Pubb Staz Zool Napoli 10 151 195 (C phalopods nd gastropods hi togenesi f pigment, ff ct of phys iation on onne tive ti ue and pigment f rmation, be rvations on anal uli of Cephalopod ganglion lls relations to white blood lls)

nd C. KOCH. 1941 Growth of the retina in amphibians during sponta eou nd experimentally nduc d metamorpho I. B ometric l tudie A A d B il Sci 13 1 14 (Buf vulgaris tadpole ; ga glion ll nd pe ridi tion ; relation of growth to total retinal volume thyroxi nd develop- mental di harmon Quantitative)

SCHUCH, K. 1934 Das Geruchsorg von T ton alpe tris Ein morphologische hi tologische und entwi klung ge chi hth he Unt suchung Zool Jahrb Abt Anat. u. Ont 59 69 134 (Hi tological tudy f lf ctory epithelium deri g f rmation, larval growth metamorpho is dult lif R lation of lime ll medium whi h nimal live)

SCHÜLLER, H 1939 Die Entwicklung de Geruch- rga be de Sturmmöve und de Se schwalbe Zei sch Ana Entwi klungsgesch 109: 75 98 (St rna hirundo Larus canus; development of lfactory rgan, Jacobson rg n; mbryo)

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1925 S l f rmation de hâine primai econda re du grand ympathiqu dan l embryon de poul t. T v du labo de re h. bi log d l Univ de Madrid 23 1 28 (Not bstra ted in L Anné B l gique)

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1931 A search f trophi nfluence of post ri pinal roots on keletal mus le with not the nerve f be found i the proximal tump of the oots ft excision of th oot ganglia. Brain 54 99 110 (Cats ection of posterio root ga glion and tellate fibe to limb mus l mn l weighed, fibe ize measured, bs nce of muscal trophy pre enc f fin fibe in posterior root f ll wing operation)

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1932 Atrophy and degeneration in the muscle pi dl Brain 55 77 90 (C ts; ction peripheral rve ventral roots do al roots; excision ym patheti ganglia; hi tologi l observat ons on muscl s; ffect on pindl nd extra fusal muscl)

1937 Trophi ontrol of non-n rvon ti ue by the nervou ystem; tudy of mu l nd bone innervated from an isolated nd qui cent region of pinal d. Jour Comp Neur 67 241 261 (Pup pie section posteri root and doubl tran ection lumbo-sac al rd; trophy nd ontracture of re ponding mm. ff ts on inte titial fibrous ti ue growth in thickn of bones mus le tta hment)

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1932 Injury and epai within the ympathetic nervous sy tem. II. The po tganglionic neurons Arch. Neur and Psychiat. 28 1139 1148 (Cats section f fibe from tellate ganglion; baerva tions on l ctric l istanc and ction currents paw weating: hi tological studi ; effects of post compa d to pre ganglionic section, fail re of re- generation of gray rami recovery of control ove skin re stanc in absence of sympathetic generation)

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1935 Di Kerne de zentral Höhlengraus d Sylvius sche Wasse l tung de M schen m Prose ihre Bildung Anat. Anz 81 1 7 (M ; f tal and dult b ains pendymal ontribution to uc do salis raphe nd nuc lateralis aquaeducti.)

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1938 M dull blasts f the infant brain. Arch. Path. 26: 791 799 (Pe istent medulloblasts in first tw year f postnatal lif man; tim of di ppea anc from various regions of brain)

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1929 Co lation in de lopm nt f tructure ociated with transplanted ye Proc Soc Exp B l M d. 26: 726 727 (Pr liminary pape eciproc l ye tr nspla ts betwe n embryos of A punctatum, A tigrinum, djustme ts f ho t eye muscle and n rve to grafted eyeballs taining their own pecifi growth te)

1930 R gulation in th growth f transplanted ye Jour Exp Zool 55 43 52 (Amblystoma punctatum; A tigrinum, embryo heteropla ti ye transpla tations; effect of extrins f to ; p feeding nd of i trinsic g owth potential in regulation f final y ize)

1932 Influenc of the ye on the growth f it ociated tructur tudied by means of h teroplast transplantation Jou Exp Zool 61 333 373 (R ciprocal ey graft embryos A. punctatum A tigrinum; retention of pecifi growth rate ye ff ts mid brain development; effect on position of dorsal di phali gr y matte Effect on as ociated ye mus le k l tal tructure)

1937 Experiment on th phe ome on of paralysi produ d by toxin occurring in T ituru mbry Jour Exp Zool 76 67 104 (Triturus pp Amblystoma pp ; demonstration f Triturus toxi with pe ific ffect Ambly toma moto n rve)

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1931 The g owth f ey d limbs tra splanted heteropla tically between two pec of Amblystoma Jou Exp Zool. 59 61-82 (Orthotop- i het ropla ti grafting between A tigrinum A punctatum with maximal f eding; demonstration of peci pecif inhe ent growth rate in opti vesi le)

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1929 Ausbl bem de Saur kontraktur bindegewebsf er Muskulatur Ze ts hr f vgld Physi l 9 665

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-- 1932 Th facto which determines the ri ntation of the outgrowing nerve fibe Coll cting Net 7 141

-- 1933 Explantation. Handwörte b d. N turwis 3 939

1933 The influenc of st et h on the length f urvival of is lated muscl Ame Jour Phy i l 106 156-169 (El ctrical timulation f i lated frog mus l ; inc se in urvival time produced by mechani l t tching)

1933 Functional daptation and th rol f grou d- bstanc in developm nt Ame N t 67 322

1934 Sec tory tivity of th inn lay f th mbryoni midb ain of th hi k vealed by ti ue ltur Anat. Re 58 299

1934 In vitro experiments n th f t determi ing th ours of th outgr wi g rve f be Jour Exp Zool 68 393 448 (Chi k embryo; explantation of eurobla ts; rol f ult tructure f medium in det rmination f rv g owth patt rn; la k f videnc f hem al lectri al urobiotaxi)

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1939 Principl f Devel pment H nry H lt & Co N w Y k.

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PART II.

DEVELOPMENT OF BEHAVIOR

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1936 The euromechani ms of the trunk limb omponent f the total behavi pattern. Anat R 64 (Suppl) 2

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1940 Th diff rentiation of th moto ll olumn in the cervi al rd f albi rat f tus Jour Comp Neur 73 469 488 (Diff ntiation f Nl l ub tanc ; gregation f eurone into nu l or lation f hi tol gi al diff rentiation with behavi)

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1937 Th tabli hm nt of rtain eflex rc in foetal h p Proc Soc Exp Bi L Med 36: 86-87 (El trical and mechanical timula tion of f tal heep; ponse rr lated with hi tol gi al de lopment of ensory and moto ystems)

1937 Movement in mid foetal lif in th heep mbryo Jour Physi l 91 329 351 (Tran ction f f tal pinal d ute ; bs rvations on f tal tivity f te days following pe tion.)

1939 The development of b havi l foetal h p Jour Comp Neur 70 477 502 (R lation of numbe f muscl activated in respons to ns ry stimul tion to g and dev lopment of fetus; domina t ma pons vs localized pon)

1939 Movement the mammalian foetu Ergebn. Physi l 42 107 153 (Sh p pontaneou and reflex behavio in relation to g and d terio tion f mbryo)

1942 Ob rvations on the fun tional d velopm nt f the foetal brain Jour Comp N ur 77 431 452 (F tal he p; intr terin b ain t m ction; loc tion of reflex nters; gen is of espira t ry rightu g nd postural eflexes)

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— 1916 Correlated anatomical nd phys l tudi of the growth of the nervous ystem of Am II The afferent sy tem of th head of Amblystom Jour Comp. Neur 26

1924 Correlated anatomical and physi l todie of the growth f the nervous ystem in Am III. The floo plate of Amblystoma Jour Comp. Neur 37 37

1924. Co related anatomical and physiol todies of the growth of the nervou ystem of Am IV Rates of prolif ration and differentiation in th entral nervous ystem of Amblystoma Jour Co Neur 37 71

1926 Correlated natomi l and phys ologi al studi of the growth of the nervous ystem of Amphibia V The growth of the patter the moto mechanism of Amblystoma punctatum. Comp Neur 40: 47 93 (Quantitative; ll ments rial photomicrographs of ntire larvae; distribut f neuroblasts and nerve ell in rhombenc phalon pinal rd; loci of diff rentiation eme gence of p f CNS prio to any function such.)

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1926 The growth of functional ne rons t relation to the development of behavi Proc Ame Philos Soc 65 51 55 (Brief summary of Coghill work on Amblystoma nd di cu ion of its bearing on psychology nd behavio)

— — 1928 Correlated natomi al nd phy iolog tudi of the growth of the nervou ystem of Amph VIII The development of the patt rn of diff rentiati in the rebrum of Ambly toma punctatum. Jou Comp. N 45 227 247 (Corr lation of rebral diff rentiation with stage in moto ctivity; loci of diff rentiation cycl of re t and tivity of loci rel tion t bio-el ctric the ry of development.)

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1929 Anatomy and th probl m of behavi 113 pp 52 fig MacMillan Co New Y k. (Summary f Coghill wo k, Uni rsity Coll ge Lectur London.)

1930 Corr lated anatomi al and physiol gi al studi of th growth f the n rvous system of Amphibia IX. The mechani m of ociation f Amblystoma punctatum. Jour Comp N ur 51 311 375 (Larva ; d iption of diff rentiated n ral ystem f rebrum, bombenc phalon pinal rd, of 4 physiological tage f development. Sensory m t d ommi sural quipment)

1930 Th structural basi f the integration f behavi Proc N tional Ac d. Sci 16 637 643 (Discus ion of xpansion to partial patterns of behavi within primary integr ted total pattern. Based on Amblystoma wo k N new material.)

1931 Corr lated anatomi al nd physi logical tudi of th growth of the nervous system of Amphibia. X Corollari f the anatomi l and physiologi al study of Ambly toma from the ge of ea ll movement to swimmi g Jour Comp N 53 147 168 (Summary f Coghill wo k from 1913 to 1930)

-- 1933 Co related anatomi al and phys l gi cal studi of the growth f the nervous ystem of the Amphibia XI The prolif ration f ll in the pinal ord fa to in the individuation of reflexe of the hind l g of Amblystoma punctatum, Cope Jour Comp Neur 57 327 358 (Quantitative; ly wimmi g to hind l g eflex tag ; mito i d increas in cell numbe of rd, relation of prolif rative ente to rve roots l vels f rd.)

1933 Growth f localized functional ente in elatively equipotential n rvous gan. Ar h. Neur Psychiat. 30 1086 1091 (Amblystoma; prolif ration of pinal d ll in relation to reflex ction, rol f local mitoti foc)

1933 The neuro-embryol gi study of be havi rt Principle pe spective and im. Scienc 78 131 138 (Discus ion of prima y f total ction, rigin of localized nte d progre ive ganiza tio f part from whol as illustrated by Coghill work on Amblystoma)

1934 New anatomical relations and the prob- bl function of Mauthne fibe Psychiat n N urol. Bladen 1934 386-391 (Amblystoma puncta tum; histological tudy of relation f Ma thn fibe t moto and int calated neuron ; ff t of inhib tion on facilitation f ephalo-caudal fl xion in swimming)

1936 Integration and motivation of behavi problems of growth. Jour Genetic Psychol. 48 3 19 (Summary f Coghill wo k sinc 1907 with pecial ref renc t psychological problems; ma and eflex re pons ; i tegration, inhibition, role of fas iculus longitudinalis medialis; discus ion of learn ing)

-- 1936 Effects of chilling structure nd behavio of embryo of Amblystoma punctatum Cope Proc Soc Exp. Biol Med. 35; 71 74 (Experimental teratology; anomalous development due to diff rential us ptibility of ctodermal nd mesodermal tissu)

1936 C lated anatomical and physiologi al tudi of the growth f the nervou ystem of Amphibia XII. Quantitative relations of th pinal rd nd ga glia rrelated with the development of eflexe f the l g in Amblystoma punctatum Cope Jour Comp Neur 64; 135 167 (Quantitative data total ll / rd segment ectional area of gray d white matte verage tional area lls total lls/ganglion volum of ganglia bilateral symm try coefficient f l ration of growth. R lation of anatomical growth with development of behavior)

1938 The ea ly movements f the opos um with pecial ref renc to the walking gait Proc Soc Exp Biol Med. 39 31 35 (Rol of ma pons and individual eflexe i establi hment of gait; relation with histological diff rentiation f CNS; neonatal pouch young of opo um)

1943 Flexion spasm and mas flexe in relation to th ontog etic developm nt of behavi Jour Comp Neur 79 463 486 (Ambly toma; man; summary of wo k on elation of reflex to total behavi pattern; analysi of flex activity afte human cord ction.)

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and R. W WATKINS 1943 Periodicity in the devel pment of the thre hold of tactil stimulation in Ambly toma Jour Comp N ur 78 91 111 (Report f dogenous peri dicity of nsitivity indepe dent of fatigu Larvae)

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1926 The onanc theory of Weis Jour Comp N ur 40; 465-470 (A reply to Weis pape Jour Comp Neu 40)

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1930 Some obs rvations upon the growth, inn rvation, and function of heteroplastic limbs Jour Exp Zool 57 183 203 (Amblystoma tigrinum, A punctatum; embryos; heterotopi heteroplasti transplantation of limb buds; nnervation of limb independ ent of pecifi diff enc in growth rate)

1942 Thirteen year of homologous function in normal and supernumerary grafted limbs Proc Soc Exp Biol. Med. 51 176-177 (Amblystoma mexi anum; heterotopi limb transplantation in embryo; regene tion of two supernumerary limbs; coordinated homologous function observed f 13 years)

— — 1943 Unilat ral substitution of the brachial egion of the pinal ord by the re pondi g half of the medulla in Amblystoma Jour Exp Zool. 92 247 260 (Diff rentiation of medull independent of environment; oordinated movements of limbs suppli d by ctopic nerves)

---- 1944. Behavio l Amblystoma larva lacking forebrain eye and nasal placodes Proc Soc Exp B l. Med. 54 195-196 (F eding reactions; ol of brain, eye olfactory and later l line sens organs in integrated behavio)

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---- and R. L. CARPENTER 1929 An experi mental tudy f the mechanism of oordinated movements in hete otopic limbs Jour Comp Neur 47 427 447 (Amblystoma; heterotopic limb transplants section of ndividual pinal nerve rol of 5th, 6th, and 7th spinal rve in moto coordination; mechanism of overloading of peripheral rve)

and G E McKENNON 1930 Furth tudi upon the nerve supply and function of supe numerary grafted limbs Biol Bull. 59 353

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1938 D velopment of the rebrum of Amblys toma during arly wimmi g stage Jour Comp N ur 68 203 241 (Amblystoma punctatum, A tigrinum; developme t of moto fi ld d its optic d lfactory onne tions in lation to swimming)

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1925 Furth studi on ye trans pla tation in th spotted at. Ame Jour Phy iol. 71 344 348 (R port I return of pupillary re ctions gati phototaxis and po itive W ugh te t as evid nc of return of vision followi g ye tr nsplantation.)

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1939 Studi in th phy iology of the mbry ni n rvous y tem I Effe t of cu on moto ctivity of th hi k mbry Jou Exp Zool 82: 371 396 (Eff t of ur re on pontan ou movement eflex activity h rt be t d ammi ti ntra ti n. Eff ct on diff rentiation of tivity)

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1925 Th development of progre on and postur l young po ums Ame Jou Phy l 74 l 13 (Pouch young ction of bra n at trigeminal level de bration; production of increased motility very young nimals de brate rigidity in lde)

1926 R lation of ns t f dec brate rigid ty to the time of my linization of tracts in the brain tem nd pinal rd of young animals Contribut to Embry 17 125 140

1927 Co relat d physi logical d morphol ogical studi f the devel pment of l ctri ally re pons ve area in the rebral rtex f the opo um Carnegi Inst. W hington Publ 380 Contrib to Embryol 19 149 176 (Pouch young to dults; plotting f lectri ally r ponsive area in rtex; d velopment of variou ents with age)

1927 Hi tological development of reb al moto reas in young kittens rrelated with th i physi logical reaction to lectri al timulation. Carnegie Inst. W hington Publ. 380 Cont ib to Embryol 19: 177 208 (N wborn and young kittens dult t lectrical stimulation of motor rtex, related histologi l tudi ; bservations on my linization.)

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1926 The tions of Amblystoma mbryo following prolonged tre tment with h l tone Jou Exp Zool. 45 279 291 An th tia tion of embryos during period of rmal developm t f swimmi g reflex ; effects of length of treatment on time of ppearanc of eflex when drug removed, haracte f re ponse)

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1926 Recupération de la vue prè greff d l oeil hez l Triton dulte C R Soc B l 94 4 (Return f vision afte eye transplantation in dult Triton; ompl tely normal histology f retina nd opti rve S Koppanyi.)

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1935 H mologous function pernum rary limb afte limination f sens ry control. Proc Soc Exp. Biol. M d. 33 30 32 (Preliminary pape)

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— 1935 Experimental innervation of muscl by the entral ends of fferent nerves (tabli hment f one eurone conn ction between ec pto and ffecto gan) with functional tests Jour Comp N ur 61 135 174 (Toads inn rvation of trans planted mus l by central ends f do sal root ; pons of mus l to lectrical timulation of ensory nerv not to natural stimulation of ns ry periphery Bearing on re onan theory)

1935 Function of d eff rented amphibia limb Proc Soc Exp. Biol Med. 32 463 438 (Toads axolotl; preliminary pape)

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— 1940 Some results of spinal rd trans plantation i larval amphibians Anat. Rec 76 57

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1941 Eye transplanted to abnormal head ite as recepto f the typical lid- l ure reflex in Triturus Anat Re 81 51

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1905 Nouvell eche che sur la ns bilité primitive de Batraciens C R Soc Bl L 59 58 59

1920 L époq d pparition t l mod d extension d l sensib lité à la urfa du tégument hez l Vertéb anamni te C R, A d. Sci 171 408 (Embryos of fi h and mphibi ; phalo-udal gradi t f development of utaneou en bility)

1920 L rapports de l'i ritabilité ecto-dermique aneural vec l fonctionnements mus lai t nerveux chez l embryons d Amphibiens C R. A ad. Sci 171 583 (Nervous rigin of fir t embryonic movements in Amphibi)

-- 1920 La condu tion aneural d l ectoderm hez le embryons d Amphib ens C R. Acad Sci 171 680 (Axolotl, frog; tra se tion pinal d, demonstrati n of cutaneous transmi sion f xcita tion.)

1920 L fon tions embryonna re de pparell de relation che l V rtéb é anammiote C R. Acad. Sci 171 827 (Amphibi Selachians: functional ignif nc of ea ly embryoni movements; d ription of thei natur)

1920 La propagation du mouvement ondulant d mm l de squelette hez les embryons vancé d Sélaciens (Scylliorhinus canicula L Gill) pré ction ou re ection parti ll de la moell C R. A d. Sci. 170 958 (T ansmi sion of undulatory movement ve peripheral nerve f 6 segments beyond tra sected pinal rd.)

-- 1920 La vale omparé et l déterminl me d igne principaux de la ontraction myotomiqu neu ale bservé hez l embryon de Sélaci (Scyllio hinus anicula L Gill) C. R. A d. Sci 171 1086. (Description of natu of ne ral myogenic ont ctions: site of rigin; ff cts f oxygen tempe ture and maturation on this phenomenon)

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